

THE RADIO RECORD

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"Pied Piper" Plays the Part of a Radio Pirate

Amusing Bubble of Bombast Blown by Christchurch Critic

IN the silly season some newspapers, particularly those addicted to sensation-mongering, exploit extraordinary ideas to fill their columns with what is fondly hoped to be "live copy." Evidently with some such objective one "Pied Piper," describing himself as "Music Critic" of the "Sun," a newspaper published in Christchurch, recently turned himself loose for the first time on radio broadcasting. Not being the proud possessor of a wireless set—not even a humble crystal, which we take to be a grave reflection alike upon the emolument derived from his exalted office and the critic's mental attitude to modern developments—"Pied Piper" borrowed a 5-valve set from a music dealer who had recently added to his activities a radio department. This, apparently, was quite easy, because there is rather more than a suspicion that the same dealer frequently and regularly supplies "Pied Piper" or his newspaper with gramophone records for the purpose of "review." Possibly, out of the fullness of his heart, on receiving a favourable "review," the dealer would generously allow the critic to retain the record, which, of course, if correct, adds definitely to the independent and disinterested nature of the critic's comments, not only on gramophone music, but in all allied fields, such as mere radio broadcasting.

EQUIPPED with this new 5-valve set, "Pied Piper" determinedly set out to critically analyse the programmes dispensed nightly by 3YA. He brought to the task that alert, discerning mind which had ever kept him in the forefront of modern

progressiveness—what a pity he had not learned years ago that there was such a thing as radio broadcasting and invested the few shillings necessary to instal even a crystal! It would have added so much to his general knowledge. Never mind, better late than never. He resolutely set himself to analyse those programmes in order to give to the waiting world his mature views on their suitability to the musical digestion of his fellow-citizens.

The joke of the Christchurch attack is that, according to our information, "Pied Piper" played the part of a pirate in prying into the programmes. . . He was not a licensed listener. He borrowed a set outside the terms of dealers' license issued to the firm concerned. In those circumstances he is liable, we believe, to prosecution. Will the Department please take the necessary action?

For five nights, hour after hour, he sat there listening, noting, criticising! What a strain on his mentality. Nevertheless, nobly he stuck to his task. He had a duty to perform. Those readers of his: How keen they were to know whether "Pied Piper" approved of this musical fare. It would not do to disappoint them. Fortunately, "Pied Piper" is gifted with a mind of extraordinary versatility—one of those lightning minds into which all evidence of sight and sound may be fed, to be readily sorted and summarised to permit the right

conclusion to flow in ordered sequence of majestic language from a ready pen. It took him but five nights to equip himself for discoursing brilliantly to those waiting thousands of "Sun" readers.

SHALL we glance at the conclusions of this wonderful mind? It is a dull world, my masters, and this joke is too good to be passed by without full appreciation.

This is what the wonderful mind of "Pied Piper" found in the five nights' intensive study of 3YA. First, like a generous soul, he admits that "a week's listening told me much, but by no means everything. . . . Most important, it has impressed upon my mind how powerful is the influence of radio on the musical life of the Dominion at a time when that life is most urgently in need of stimulation." How remarkable that this musical life should so require stimulation, since a little lower our friend commits himself to the statement: "It is a fact that the general standard of musical culture is higher in New Zealand than in Great Britain." Surely that is very satisfactory—why, then, the urgent need for stimulation? However, let that pass. "Pied Piper," with that irresponsible gaiety that is his inheritance, presses gaily on with his task. "If I criticise," he says, "it is merely because the work could be made so much more effective, more stimulating. . . . Why should the New Zealand public be denied the opportunity of hearing works that are worthy of it?" Why, indeed? But our friend, in spite of his acclaimed high standard, thinks it well to add, "If the appreciation of these
—Continued on page 2.

Pirate Critic

(Continued from front page.)

(classical) works is not already there, it can soon be stirred." Evidently, then, our musical standard is not quite so high as claimed. So our musical friend gently advances the old idea that, through our broadcast programmes, the listening public should be "educated" to a higher appreciation of classical music.

If our little "Pied Piper" friend had only a little more experience of listening, he would have been familiar with the various wars on this subject that have been waged during the past few years. He would have learned how keen the public is to be "educated" by highbrow music; how, for instance, it revelled in the performance of the famous trio from 2YA, and how rarely is any complaint made as to programmes being too classical and too highbrow. Had that experience been available to the all-comprehending mind of this critic, he would, we imagine, have been less childish and didactic in his references to classical music. With that mental complacency which is the outstanding characteristic of so many musical folk, the "Pied Piper" pipes to this effect—as though he alone had knowledge of classical music and it was his divine mission to raise the common herd to enjoyment of these fields of Elysian delight: "The public is satisfied

with whatever music it hears simply because . . . it has never demanded the opportunity of hearing anything better." Could anything be more futile? "Would to God it were" we hear the programme organiser say on this point.

HOWEVER, the "Piper" gives us the assurance "that there is no music less dull than the music of the classics." How cheerful! Seriously, though, the "Piper's" pipings need not be traversed in undue detail. On his own confession of his inadequate training of but five nights' listening, he cannot expect experienced listeners to take seriously his recommendations. Briefly, however, those recommendations are: (1) More classical music; (2) better artists; (3) better gramophone records; (4) "absolute control of the musical programmes to be in the hands of a capable body of musicians."

Neither the singular unoriginality of these views nor the logic displayed in his writings entitle "Pied Piper" to much consideration or respect. For instance, this is an example of his reasoning power: "This week was selected at random. It may be safely assumed, therefore, that it is typical of the year, and similarly that Christchurch programmes are typical of all those broadcast from other centres." On this reasoning "Pied Piper," on reaching Wellington and enjoying five days of our recent southerly weather, would

"safely assume that it is typical of the year, and, similarly, that Wellington weather is typical of that prevailing in other centres." There is no ground in logic for reasoning from the particular to the general. On the contrary, all logicians emphasise that such a step is dangerous, and that general assumptions can be made only with a backing of very wide general knowledge. "Pied Piper" may be a musician; he is certainly not a logician.

On major points an adequate reply to "Pied Piper" was made in the columns of the Christchurch "Sun" by Mr. A. R. Harris, General Manager of the Radio Broadcasting Company, and this review may fitly be concluded by quoting those points in their due place. As to the fourth suggestion that a capable body of musicians should be entrusted with the absolute control of the musical programmes of this Dominion, we can only say, "God defend New Zealand!" Trained musicians vary in their likes and dislikes more than most people, and the method proposed of turning musicians loose to effect the musical education of the harmless listener would not be welcomed by the listener himself.

Points in Reply

POINTS from replies made by Mr. A. R. Harris to "Pied Piper" may be briefly summarised as follows: Mr. Harris stated that "Pied Piper" had a wrong conception of the broadcast service. The primary object of that service was to organise and broadcast that which was available, having regard to the general desirability and acceptability of the material to be broadcast, as well as the practicability of putting it over the air. Broadcasting had opened up an entirely new channel of service, and its objects would best be served by restricting it to that service. The company were neither parvenus nor anarchists, but orthodox enough to believe that programmes should follow modern ideas and current events. Instead of endeavouring to educate the public's musical taste, it was obviously more sound to leave this to the musical profession and educational institutions, and to co-operate with them. If they were to concentrate on educating the public, they would not be functioning as a broadcast service, and would be diverting or stifling interests that could be widened in other directions. If, on the other hand, the Broadcasting Company made available, as far as it was practicable to do so, that which was already available to a limited number, such as broadcasts of classical or operatic music, Shakespearean plays, concerts by amateur organisations, and other public functions or heavy or light entertainment, sporting events, lectures to the farming community or church services, it gave variety, and, under proper regulation, increased diversity of interest, tending, not only to stabilise, but also to establish national consciousness. This was not to interfere with studio concerts of high-class music, but there was a sameness about them from which it was impossible to escape.

On the suggestion that the company should employ certain artists nominated by "Pied Piper," Mr. Harris stated that the majority of these had been broadcast. Of the remainder, some had been offered engagements, but had not been available, and, in one particular case, the person concerned had

only recently been available, and a contract was made before "Pied Piper's" statement was written. The company was keeping in touch with all available talent in all centres.

As to gramophone records, on which point "Pied Piper" had stated the company did not make the best selection for broadcasting them immediately they were issued, Mr. Harris pointed out that the use of gramophone records was limited to 25 per cent. of programme time. The company did receive samples of the whole of the recordings imported to New Zealand, and these were competently reviewed and those suitable broadcast at all stations immediately, either during the dinner, evening or dance sessions. The company used sometimes up to 2,500 records per month. If "Pied Piper" had checked up the facts prior to making his statement, he would have had to listen in, not only to the one station, but to all four stations simultaneously, for from six to seven hours per day, and sometimes up to ten or twelve hours per day, in order to ascertain what was broadcast. On this point it was commented that "Pied Piper" might enjoy a number of records presented to him in return for a boost criticism of the classical and operatic numbers, and, in his articles, might see fit even to advertise the radio set lent him and the concern supplying him with that particular set; but, in doing this at the expense of the Broadcasting Company's programmes he needed to be sure that he was not allowing a personal interest and prejudice to distract him from taking a wider view of the broadcasting service. The attack by "Pied Piper" was unreasonable in that he apparently expected to listen in for one week and get a plethora of classical and operatic music to suit his own particular taste. Because he did not get that he attacked the broadcast service through the columns of his paper, which was not a practice that would commend itself to listeners who were paying for the service they were getting, and who appreciated the definite advance that had consistently been made in the service supplied over recent years.

It only remains to be added that Mr. Harris's reply to "Pied Piper" was materially curtailed by the "Sun," and only partly published.

A Broadcasting Litany

THE following broadcasting litany was composed by a correspondent of "Wireless Weekly":—

From mezzo-sopranos who sing "Land of Hope and Glory."

From male elocutionists who reproduce "The Green Fly on the Little Yellow Dog."

From female elocutionists who emit "Twas only a Red, Red Rose."

From baritones who sing "The Floral Dance."

From philosophers who laugh at their own alleged humour.

From the following gramophone records, "The Wembley Tattoo," "In a Clock Store," and "The Whistler and His Dog."

From clergymen who are aware (all too aware) of their unseen audience.

From "Silver Threads Among the Gold" in any or whatever form whatsoever played, hummed, or only mentioned.—

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"GALAPAGOS" was broadcast from 1YA some months ago so successfully that it was the basis of conversation for some weeks afterwards. This play has been broadcast three times by the British Broadcasting Company and ranked very highly in the popularity contest held at the end of last year.

SIX years ago a geographical expedition from Harvard University, under the leadership of Mr. William Beeche, returned to America after three months' stay on Galapagos Island. The Press gave the expedition much publicity and as a result Martin Christiansen, an able-seaman, procured an interview with Mr. William Beeche. In this interview, the man of the sea told the scientist the story of a much less enjoyable stay at the volcano-born island of Galapagos. As a result of this interview, Mr. William Beeche devoted a chapter of his book "Galapagos—World's End," to the trials and tribulations of the becalmed crew of the good ship Alexander. This chapter was the inspiration of the radio play "Galapagos."

THE story is similar to Coleridge's tale of the "Ancient Mariner"—the tale of "cursed ship becalmed." After five months of aimless drifting without a breeze, the crew of the Alexander desert their ship and make for Galapagos, an island which is known to be in the vicinity. This island proves to be little more than a volcanic rock on which there is neither vegetation nor fresh water. The mariners live in turtle and brackish water which they find in the rock-cavities.

The account of the killing of the turtles and the seals surpasses even Defoe's "Robinson Crusoe," and the homely tongue of Martin paints vivid pictures. The finding of signs of previous habitation and of the stocking is indeed sad, and the whole play is characterised by a bitter irony. To these men the days were as long as years, and Martin says that there was little of the lives of his shipmates that he did not know, as they of his.

Association in danger such as this forges bonds of comradeship that can never be broken and a love of a man for his friend that is almost holy. The glee at the finding of the matches, the only touch of humour so far, the sighting of the boat, all is related with a charm that smacks of the sea and the

Galapagos Featured from 2YA

Unique Radio Play on September 6

listener shudders with feelings of eeriness and mystery.

A tear may be shed at the death of poor Jeff and at the drowning of poor Herman, but the climax of the piece is the growing insanity of Burton. Very pathetically the crew search about for a song to sing to help pass the endless tropical night. Someone suggests

The difficulties in the production of a successful radio-play are without number, but the opportunities for effect in "Galapagos" are fully utilised. The story pulses with vividness and human interest and the characters live before the listeners. Nightmares can be guaranteed to the imaginative, the personnel of which will be great naked



"The Asquiths" came to New Zealand some three years ago after appearing on English halls. One of the most popular turns at 1YA.

—S. P. Andrew, photo.

"Home, Sweet Home," and this is more than poor crazed Burton can stand. "Oh, no, not that one. Please don't—not that one."

The playing of appropriate music by a sympathetic orchestra and the singing of sea chanties create a wonderful atmosphere. The listener can almost feel the tang of the salt in the air, and "The soft sigh of southern breezes in the air,

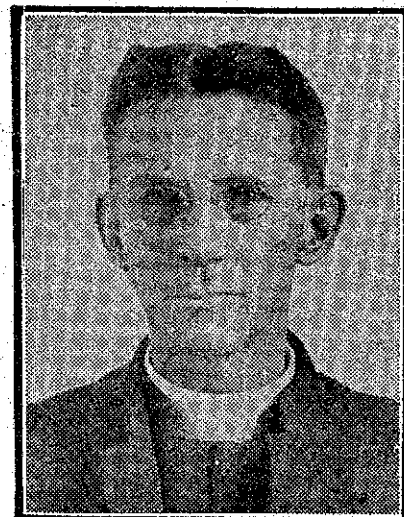
And the bold burst of breakers on the beach."

men with long unkempt beards, hungry eyes and clawing hands.

"Galapagos" was on the air from 4YA on August 30, and, as with 1YA, it met with phenomenal success, and many 4YA listeners have expressed their intention to hear the play again from 2YA. Success from Wellington is assured. Careful planning under the direction of Mr. T. F. Montague can have only one result—success. Listeners who appreciate drama should not fail to tune in on September 6.

Auckland Congregational Anniversary

THE Auckland Beresford Street Congregational Church will celebrate on the 29th September its 77th Anniversary, and the occasion is to be marked by special arrangements. Two services will be held in the Auckland Town Hall, at 2.45 and 7 p.m., and arrangements have been made for the choral items to be led by a choir of 600 voices. The preacher will be Rev. Lionel Fletcher; conductor, Mr. Wm. Gemmell; organist, Mr. Arthur Cherry;



The Rev. Lionel B. Fletcher.

and pianist, Miss Thelma Gordon, L.A.B. Both services will be broadcast by 1YA.

JIGGS: "I'm staying in to-night, Maggie."

Maggie: "No, you're going out. Don't I know that those bathing beauties from Milford are going to be on the radio."

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Increasing Production

Raising the Potato Yield

AN interesting lecture arranged by 3YA Primary Productions Committee was delivered at 3YA by Mr. C. P. Leitch, Fields Division, Department of Agriculture, on Thursday evening, August 29, on Seed Potato Certification.

"My little talk this evening is on seed potato certification," said Mr. Leitch. "The certification of seed potatoes, which was inaugurated by Mr. J. W. Hadfield, Agronomist to the Department of Agriculture, has now been in operation for two seasons, and from results obtained the scheme has been very successful.

"In recent years potatoes have become very badly mixed, so much so, that in some cases two varieties merged into one. In some instances it has been found that some varieties have been incorrectly named. Potatoes are also subject to a number of diseases, the more common diseases being Virus, Late Blight, Powdery Scab and Bel-worm.

"By far the most serious of these diseases is Virus. It is tuber-borne and is not detected in the seed, and for that reason it becomes most serious. A healthy looking line may, on planting, be a complete failure, due to the

presence of Virus. The only method, at present, of detecting it, is by an inspection of the growing crop, when the disease manifests itself in the foliage.

"The Government felt that the time had arrived to bring forward some scheme which would help check the gradual falling off in the yields of potatoes, caused mainly by Virus disease; therefore certification was brought in with the object of checking the distribution of Virus diseased potatoes, also badly mixed lines.

"The method adopted for carrying out the scheme is to collect 150 tubers from the farmers. These are grown at Ashburton Experimental Farm under trial, proper experimental methods being adopted. That is, the lines are grown in such a way, that they can all be compared, a uniform piece of ground being selected for the trial. All lines have the same quantity of manure applied. In fact, great care is taken that all lines receive the same treatment. The evidence obtained from these trials showed that some lines were very good indeed, while others were absolutely worthless.

"It is on this evidence that certification is based, lines which come below the average in yield being rejected as unsuitable for seed purposes. On last year's results, in cases where a high percentage of disease was recorded in the field inspections, a correspondingly decreased yield was recorded at digging.

"Growers wishing to enter their crops for certification will on application receive application forms, and on receipt of these, an officer calls and collects a representative sample of 150 tubers. These sample lines will be grown and inspected. The first inspection will take place when plants are 4in. to 6in. above the ground, and the second inspection is made at flowering. In both inspections, counts are taken for impurities and the amount of disease present, or in other words the percentage of disease present. All those lines passing the standards set at the experimental farm will be subjected to three further inspections, on the farm, under field conditions.

"Three inspections are made on the farm: (1) at flowering time; (2) at maturity; (3) when tubers are graded and ready for sale.

"After the second inspection, the growers of all those crops which have passed the necessary standard will be issued with a provisional certificate, which, while not being final, will enable growers to make sales in the interim, if required.

"The final inspection is undertaken on receipt of notice from the grower that his potatoes are graded and ready for sale. If the line passes the standard set for the final inspection, the grower will be supplied with sufficient certification tags to attach one to each bag sold.

"On receiving these tags the grower will be asked to fill in a 'Return of Sales' sheet, which is kept, in order that each line sold can be traced, and the resultant crop inspected if necessary.

"The benefits derived from the scheme are that the grower will know just how good or how bad his line is. If it passes the standard set, and he can maintain and improve that standard, the line becomes more valuable. On the other hand, if from the results obtained at the Ashburton trials, his line proves poor in cropping power, it is an indication to the grower that a change of seed is needed in order to get full returns for time and labour expended.

The purchaser can buy seed with more confidence, knowing that the lines which pass all inspections will produce a profitable crop.

The scheme has the effect of facilitating the distribution of seed of a good standard, while it does not interfere with the sale of less valuable lines, under the ordinary marketing conditions. Considerable improvement has already been noted in the lines submitted in the markets, and while the scheme is not wholly responsible for this, still it is claimed that it should gradually place the growing and marketing of seed potatoes on a more solid basis, giving greater satisfaction to all concerned."

Keeping in Touch

ELEVEN stations have been installed in New York and Los Angeles for the sole purpose of keeping in touch with air pilots and to keep them informed of any news of which they might have need. These stations are privately owned by the various airplane manufacturers, and if the innovation proves successful it is their intention to introduce similar stations all over America.

The Long Arm of the S.O.S.

"RADIO NEWS," in an article on the uses of the "S.O.S.," gives some very interesting instances of the practical value of this signal in everyday life.

1. A fisherman in a drifter, not carrying a wireless set, about thirty miles off Wick, was wanted to go to his wife. Would any drifter in the neighbourhood give the message? The man was told and returned home.

2. A message was broadcast in German asking for a man who was touring between Hamburg and Frankfurt in a two-seater Phantom Rolls-Royce and saying that his father was ill and required him home at once. The man was found.

3. A man who was believed to be a tramp and whose wife was in a poor-law institution was traced through his fellow workmen and returned to his wife. His job was kept open for him. This case was recently in the papers.

4. A nursing mother was urgently required for a baby on the South Coast. An offer was made over the telephone and accepted within ten minutes.

5. A man taking his holiday yachting on the Broads was wanted to go to his father in Manchester. The "S.O.S." was heard by another yacht who remembered passing his yacht, the name of which was mentioned in the "S.O.S." before. They returned round and went in search of the other yacht and delivered the message.

Radio and a Murderer

ALTHOUGH America claims to have been the first to employ radio in the apprehension of criminals, it seems that England has now established a prior claim. The most sensational criminal case of 1910 was the wife murder committed by Dr. Crippen in London. Crippen was a third-rate physician whose nationality was doubtful. The crime was the outcome of a sordid domestic triangle. After killing his wife and safely disposing of the body, the murderer convinced the neighbours that his wife had gone abroad. He seems to have been afraid of detection, and had not his panic resulted in flight it is doubtful whether Crippen would have been apprehended at all.

The police learned that Crippen had disguised his mistress as a boy and had disappeared, but they could not locate them. The pair had, in fact, gone to Holland, whence, under an assumed name, they had sailed for Quebec on the s.s. Montrose.

The captain suspected the sex of Crippen's companion, and as the Montrose was equipped with the newly-discovered wireless he communicated with Scotland Yard. Thus while these lovers thought themselves to be safe they were being carried towards justice.

The prisoners were returned to England, where they were tried. Crippen was hanged and his companion in crime received a term of imprisonment. Thus in its first man hunt radio had been triumphant.

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1929-30 Edition of the Guide has been well received and repeat orders are coming in rapidly.

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IN America the amateur transmitter is considered a national asset. He is given every encouragement in the matter of studying, experimenting and even of handling harmless messages providing he adheres to the amateur waveband and does not accept a fee for his messages. The United States Government treats the amateur as a scientific enthusiast. The amateurs return this interest whenever they can, and thus during the Florida flood, three years ago, and the San Diego storm of two years ago, they were of great use.

IN a recent editorial, "Radio News" discusses whether radio is a necessity or a luxury, the query being prompted by the decision of an English magistrate. A broadcast listener who appeared in Court charged with having operated a radio receiving set without a license, pleaded as an extenuating circumstance that radio was necessary to his livelihood. His plea was that he was a casual piece-work labourer depending on broadcast news and reports for possible employment. The magistrate, however, would not accept the definition of the offender. On the contrary, he ruled that radio was a luxury—to be classified under the category of motor-cars, expensive furs and diamonds. Consequently, under the existing law this radio pirate met with the appropriate penalty.

THE Siam Government has banned radio. This sounds like tyranny, but this is not so. The Government does not believe that its people should be the butt of unscrupulous traders and purchase apparatus unsuited to the conditions and which will later have to be scrapped. About £12,500 has already been spent on experiments on this subject.

AN American company has been formed in Malaya with the object of providing broadcast service for all parts of the Malayan Peninsula. The Singapore town clock is to provide signals for the hour of noon. The proposed tax is £2 for one to four-valve sets and £3 for all above four valves.

THERE seems to be no advance at all in Indian broadcasting. The value of an efficient wireless organisation in India could not be exaggerated. Had wireless telegraphy been in use a hundred years ago, it can safely be said that the Indian Mutiny would have been but a flash in the pan, and most of the whites that were murdered would have been saved.

FOR the Radio Exhibition to be held this year in Barcelona, a tower, 1300 odd feet in height has been planned. The base is to be 600 feet round and will accommodate a broadcasting station and a radio telegraph station, besides a hotel, theatre, library, and museum.

THE new station in Frankfurt, Germany, has introduced a new scheme in its construction. The walls of the studio converge to a point, and this is done as an aid to tone. The innovation is merely experimental and the effect seems to be to make the tone mellow and rich. The result is so satisfactory that other German studios consider adopting the device.

RADIO is regarded with contempt, if not worse, in the Argentine. Broadcasting stations seem to be classed

with nuisances, and come under the same category as dust-destructors, cemeteries, soap factories, and the like, and before the end of the year they are to remove beyond the city limits. Under such a regime the development of radio will indeed be slow.

FROM Pole to Pole! It is learnt from a Copenhagen paper that a message sent from the wireless operator of the American Antarctic Expedi-

symptoms of the disease and the mode of treatment and stressed the importance of having the disease treated even in the mildest form.

THE General Electric Company of America is at present carrying out experiments in order to transform radio waves into heat, in other words the broadcasting of heat. The company reports that they consider that very soon the housewife will be able

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SEPTEMBER 20, 1929.

tion was heard at the North Pole by Mr. Hobbs, wireless operator with the Byrd Expedition in the South Pole.

HUNGARY is very enthusiastic about wireless and the hobby has become almost incredibly popular. Even the most humble home is equipped with a receiver of a kind, and the lowly road-mender listens to the strains of the world's best orchestras, and even the thatched cottages are filled with the strains of Beethoven and Wagner.

THE wireless programmes of Moscow are very interesting. All tastes are catered for, but special efforts are made to try and make listeners appreciate the classical and beautiful. A novel orchestra has been formed in one of the studios capable of broadcasting 200 different sounds. These sounds range from the bells of the carillon to the roar of the lion.

IN the United States trains wireless has been installed not only for the amusements of passengers, but also as a means of communication between the driver of the conveyance and the other officials on the train. When it is remembered that some American trains contain 115 carriages and are nearly a mile in length, it can be understood that some such mode of communication is necessary for safety and efficiency.

AT Station WRNY (New York) famous doctors met together to discuss what means could be employed to combat the dreadful disease of cancer. The conference was broadcast, the first discussion of its kind ever to have been made public. They described the

the directors decided to make no change in the broadcasting hours.

ITALY desires to cultivate the tastes of her people. To further this, travelling kinema men journey to the outlandish places, taking with them portable kinema apparatus. They also carry a wireless installation capable of receiving the music from the nearest station, and this music acts as the incidental music to the picture, which is usually of an educational nature.

THE latest name in America for a wireless listener is a "shut-in," says "Popular Wireless." A little extension to this new name and we shall have a night's listening-in described as being shut-in till shut-up at shut-down.

IN a recent air pageant in America, Mr. C. J. de Bever, a well-known instructor parachutist carried what was claimed to be the smallest transmitting set in the world. He described his sensations while falling 10,000 feet from a moving plane, and this broadcast was picked up and relayed with a fair measure of success by station 5XX.

ONE of the new studios in the Columbia Broadcasting Company occupies two storeys and has a glass-encased gallery which enables visitors to see what takes place in the studio and at the same time loudspeakers placed in different places in the gallery convey to the audience the broadcast music or words.

THE United States Signal Corps is organising an amateur radio system with the object of providing extra communication channels during a national disaster, the idea being to augment or replace landlines which may be brought down by flood, fire or tornados.

VERY elaborate regulations governing radio have recently been enacted in the Argentine. Besides giving stations notice to quit the city, the power used has been limited by the authorities to between 500 watts and 10 k.w. (antenna). Further, there are to be no tests or experiments between 10 a.m. and midnight. The violation of any of these rules will result in a very serious fine.

A FRENCH newspaper recently introduced a "questionnaire" in which they invited their readers to state what type of amusement they most enjoyed. The answers resulted as follow: The kinema 111,828 votes, football 104,399 votes, wireless was third with 60,489 votes, and finally dancing with 56,736 votes.

to cease worrying about the mode of supplying heat for cooking purposes as heat will be able to be received from the same source as the broadcast music. Even the Eskimos can look forward to a system of warming their no doubt chilly igloos.

A FRENCH paper remarks that there is a correspondent who has two passions in life—duck-hunting and the study of wireless. So when he indulges in the former he takes with him a portable wireless set, and while waiting for the shy fowl, listens in to the latest from gay Paris.

A CONTINENTAL station recently gave notice of their intention to decrease the transmitting hours by some two hours per day. No sooner was this intention given publicity than over 500,000 letters of protest was received by the management. In the face of such overwhelming disfavour

Perfect reception of your local station without Batteries.

PHILIPS Q.P.

A.C. RECEIVER £19/17/6

Plug into the nearest light socket; costs almost nothing to run :: HEAR IT AT—

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The New Zealand Radio Record

(Incorporating the "Canterbury Radio Journal.")

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Published Weekly. Price 3d. Subscription Post Free in advance, 10s. per annum; booked 12s. 6d.

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N.Z. RADIO PUBLISHING CO., LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, 6, 1929.

IRRESPONSIBLE CRITICISM

WE think every licensed listener may legitimately feel resentment at the irresponsible attack upon the broadcasting service recently made by the musical critic of the "Sun," a paper published in Christchurch. Resentment of this attack may be based upon its unfairness, the inadequacy of the critic's capacity and experience, and the injury to broadcasting likely to be inflicted by such a discouragement of business. On his own showing—as is revealed in a summary of the case given in our front page article—this critic is not, and never has been, a consistent listener to broadcast music, and was not equipped with even so humble a radio set as a crystal receiver. For the purpose of his attack, he borrowed from a music firm in Christchurch, which had recently added a radio department to its activities, a five-valve set, and devoted himself for five whole nights to listening to the programmes dispensed by 3YA. On this lengthy and comprehensive experience he took it on himself to criticise the whole broadcasting service, more particularly its musical side. Obviously, with this limited experience the critic's capacity for the task he undertook is questionable. His bias in relation to his personal tastes will be sufficiently revealed to listeners by citation of his main recommendations. First he wants more classical music, in order to "educate the public" in its appreciation of such music, as to which, we are pompously assured, "there is no music less dull than that of the classics." In the second place, this critic wants more high-class gramophone records. In the third place, he wants better artists—although the majority of those whom he named as being desirable to employ have been employed and the others have not been available. Fourthly, and finally, this critic makes the sapient suggestion "that the absolute control of the musical programmes must be put into the hands of a capable body of musicians."

THE suggestions of this immature critic will be sufficiently familiar to experienced listeners to be discounted at their birth. We are not concerned to expose further the unoriginality and futility of the suggestions made. All those listeners who have had experience over recent years and who are paying for the service they are receiving will recognise the advancement that has been made in improving the service. The point we are mainly concerned with is to protest against the unfair attack by a newspaper upon the radio broadcasting business to the injury of such business. We do not resent in the slightest any

fair criticism that can be, or is, levelled against the Radio Broadcasting Company. It is not above criticism. It is quite open to attack in fields where it can be shown it is failing to meet the public want. It has not attained perfection by any means, but we believe it is honestly striving to give a good service, and we think it quite inexcusable for any newspaper to assign a member of its regular or associated staff to vent an attack upon the service by a person with so inadequate a capacity for the task as is displayed by "Pied Piper." A newspaper may quite rightly regard itself as a guardian of the public interest where the public is in peril, but before any attack of this nature is levelled by a reputable paper care should be taken to see that the charges made are justified, that sufficient inquiry and research has been made into the case to warrant attack, and that no suggestion of self-interest or competitive interest is involved, and more particularly care should be taken that the law is observed. Listeners may be surprised to learn that we have every reason for believing that "Pied Piper" played the part of a radio pirate when listening to 3YA. If the facts as given are correct, he borrowed a set from a radio dealer whose license does not cover the use on loan, although it permits demonstration with a view to sale. On the facts, "Pied Piper" would seem to have committed the same offence for which an unlicensed listener in Wellington was recently fined £10. Will the radio inspector please investigate, and if the facts are correct take the necessary action? Listeners, we think, would enjoy seeing this case pushed to finality and witnessing such an experienced critic being fined for piracy.

Maori Pageant

Congratulatory Letters

LAST week we published a series of comments received from Australian listeners praising in very high terms the Wanganui Maori Party's broadcast of the Pageant of the Maori Race. So impressed were listeners on the other side of the Tasman that further congratulatory letters have been received in shoals by the latest mail, and it is evident that the broadcast created great interest in Australia, as well as incidentally providing New Zealand with an excellent advertisement.

It is interesting to note that as an indication of the impression which this broadcast made on Commander Byrd and his party, special mention of the programme was made in a message from Little America to Sir Maui Pomare.

Waitomo Caves Concert

An Unusual Feature

ARRANGEMENTS for the concert which is to be relayed from the Waitomo Caves on September 20 and broadcast by 1XA are well in hand, and in addition to the novelty of the relay a splendid programme to be given by leading Auckland artists is promised for the occasion. The possible effect which the acoustic properties of the caves may have on the performance is causing a good deal of discussion among listeners, and there is no doubt that the relay is being anticipated with more than usual interest.

Fruit Preserving

Lecturette by Mr. Ken Willis

OF special interest to the ladies will be a lecturette to be broadcast from 4YA on Monday by Mr. Ken Willis. Mr. Willis will deal with the subject of fruit-preserving, and will doubtless be assured of a large audience when he appears before the microphone at 7.40 p.m.

The Radio Ball

Interesting Event

A HAPPY evening occurred at the Majestic Lounge on Tuesday night—the Radio Ball, when a number of 2YA associates sponsored a successful event. On entering one was met by a sign displaying an appropriate variation of a well-known phrase, "Goo-o-o evening, everybody." The usually pleasant atmosphere of the room was enhanced by very large, artistic, and well-placed sunflowers. There is no to the full. The dance music was supplied by Claude Hoare and his band. Dancing, however, was not the only entertainment offered, there being several enjoyable cabaret items between dances. These included a vocal item by Miss Myra Sawyer, a demonstration of magic by Mr. Ling, and an acrobatic Eastern dance by Trevor and Dawn. Mr. Pat White gave a step-dance. Exhibitions of the latest ballroom dances, given by Miss Phyllis Bates and Mr. Pat White, Miss M. O'Connor and Mr. Ted Priestly, Mr. Joseph Colledge, and Miss McHaffey, added interest. A pleasant surprise awaited the ladies on entering, a posy being presented to each. The efforts of Mr. Edward Silver, who had organised the Radio Ball, were well rewarded.

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
THE MASTER VALVE

English National Airs**Recital at 1YA**

AT 1YA on Friday, Mrs. Daisy Basham, the well-known soprano hailing from the Hauraki Plains, will in company with the Clarion Quartet present a recital of English national songs. These will comprise melodies typical of the fifteenth, sixteenth, and seventeenth centuries, and a very interesting evening is promised.

Children's Hour**Heard for 3000 Miles**

THE following letter has been received by 2YA. It is headed "S.S. Can. Britisher, Canal Zone."

Dear Aunt Gwen,—I wish to express an appreciation to all the personnel of the studio at Station 2YA for the pleasure which we have experienced from the splendid programme broadcast. It may be of interest to you all to know that the reception was excellent at a distance of 3000 miles, when Station WLW, Cincinnati came in on the same wavelength and drowned all others.

Most surely the radio has been the means of making life more pleasant for the man at sea, if no other. And now all the important events of the day as well as the best of entertainment are available to him.

Among the items from 2YA the "Children's Hour" was always listened to with interest, and I am sure it must be very intriguing to them to see whether they are favoured of the "fairies." Thanking you all again, and trusting to soon be once more "tuning in" on 2YA.—Yours truly, B. W. Lyons.

Have you procured your copy of

"N.Z. Radio Listener's Guide?"

Dealers and Booksellers 2/6; Post Free 2/9—P.O. Box 1032, Wellington.

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ENGINEER.

Designs and specifications for hospital and large radio installations. Design and testing of radio receivers, transmitters and apparatus. 194 Oxford Terrace, Christchurch. BOX 806.

AMATEUR RADIO SOCIETY OF WELLINGTON.

THE Next Monthly General Meeting will be held in the CAMBRIDGE TERRACE CONGREGATIONAL CHURCH HALL, TUESDAY, SEPTEMBER 10, at 8 p.m.

MR. L. H. WRIGHT

will deliver an address on "The Screen-Grid Valve."

ALL LISTENERS WELCOME.

Battle of the Somme**Special Commemoration Programme at 2YA**

A PROGRAMME of marked interest has been arranged for Thursday, September 12, at 2YA in commemoration of the Battle of the Somme (1916). The programme is in the hands of Lieutenant Shardlow, conducting the 1st Battalion, Wellington Regimental Band, who will be assisted by the Lyric Quartet. The whole programme will be reminiscent of the Great War, and of special interest will be a novelty selection by the Band, "An Episode of the Great War." This introduces a scene from camp life prior to the troops embarking at Southampton.

The programme is a distinct novelty, and as such will meet with the ready appreciation of all listeners.

Graf Zeppelin**Landing Rebroadcast**

ON Thursday last, station 3YA at 10 p.m. rebroadcast a description from KDKA, New York, of the arrival of the Graf Zeppelin circling over New York prior to the airship's departure for Lakehurst. 3YA had received information earlier in the day that a short-wave broadcast would eventuate and in view of this fact, a continual watch was kept on KDKA and other American stations from 7 p.m. onwards.

2XAF on the 19-metre band was clearly audible broadcasting jazz music, but although KDKA was also on the air with a strong carrier, it was not until about 9.45 p.m. that any announcement was made from this station, when it was stated that the station was still waiting for news of the Graf Zeppelin, which was keeping in communication with them on 36 metres and that as some entertainment was then coming over from New York, this would be put on the air until such time as they were ready to give an actual description of the airship's flight.

For a time the surging which is usually a characteristic of short-wave reception, was markedly absent, and the programme received from the Hotel Pennsylvania (New York) Orchestra was rebroadcast by 3YA. 3YA's transmission at this period was so good as to compare favourably with a rebroadcast of 2YA, reception being particularly steady and clear.

When the Zeppelin hove in sight of New York change-over was made to an observer who described details of the airship flying over the Statue of Liberty accompanied by an escort of fifteen aeroplanes. KDKA then came back to the studio awaiting the arrival of the airship at Lakehurst, where the actual landing was to take place. On the arrival at Lakehurst KDKA relayed a description of the landing, and 3YA's rebroadcast was so clear that the sound of the airship's engines was clearly audible, and it was possible to hear orders being given to the crew at the hangar.

Members of the crew spoke, and Dr. Eckener, the commander of the airship, made a short speech, which was clearly received.

3YA's reception of KDKA was conducted by means of a special short-wave receiver designed and built by

A Much-Travelled Picture**Remarkable Feat**

ONE of the most remarkable feats in the telegraphic transmission of pictures was accomplished recently when a photograph of the scene of the hospital disaster at Cleveland, Ohio, U.S.A., was sent to Berlin. The first stage of its journey, from Cleveland to New York, a distance of over 400 miles, was accomplished over the land telephone line.

The three thousand odd miles from New York to England were by way of the Beam wireless service. From London to Berlin the picture was sent by the Fultograph process, the final six hundred miles of the journey being over the telephone line and submarine cable. The photograph was sent for the Scheri group of newspapers in Germany, and the fact that after being handled by three quite different methods of transmission and having made two sections of its journey over the wires and one by wireless, a picture suitable for reproduction in the newspapers was received is a tribute to the high degree of efficiency to which the sending of pictures by electrical means has now been brought.

The most difficult part of the task was that undertaken by Fultograph, since it was inevitable that the picture should have lost a little of its original sharpness during the two previous stages in its transmission. The successful relay of the picture over its final stage by the simplest of all three methods used was a notable achievement.

The Broadcasting Company's chief engineer, Mr. J. M. Bingham. The set is somewhat more ambitious than the average short-wave model in so far as it consists of a completely shielded short-wave super heterodyne receiver using UX222 valves in the intermediate stages. The whole transmission reflected great credit on 3YA and was unquestionably one of the finest rebroadcasts ever conducted in New Zealand. The Christchurch station closed down at 12.39 a.m. on Friday morning after concluding this extremely interesting and successful rebroadcast, which has received the highest praise on all sides.

Football Relay**Otago v. Canterbury**

SATURDAY will see the Otago touring teams' representative fixture with Canterbury at Christchurch, and in view of the great interest which is being displayed in Otago in connection with this fixture, the match will be broadcast by 3YA and relayed to 4YA, providing relay-line facilities are available.

Relay from Timaru**Orchestral Society Concert**

AS already announced the second broadcast to be given by the Timaru Orchestral Society will take place on Monday, September 23. As on the previous occasion, an excellent programme has been arranged and will include Auber's Masanello Overture—Ballet Music from "Faust"—Coleridge Taylor's "Othello Suite" and Mozart's overture, "Magic Flute." The vocalists assisting the Orchestral Society have yet to be decided on, but the whole programme, which will be relayed to 3YA, promises to be most interesting.

Of Interest to Farmers

The Public Trust Office has just issued an interesting folder in connection with Advisory Trustees. It explains how farmers may take advantage of the opportunity to appoint one or more Advisory Trustees to co-operate with the Public Trustee in the administration of their estates. The various points are set out lucidly and briefly. Every farmer should make a point of obtaining one of these folders.

ADVISORY TRUSTEES

If you haven't read it, get your copy to-day. Obtainable from any Office or Agent of the Public Trustee, or free by post from the Public Trustee, Wellington.

Choral Society**"Merrie England" at 4YA A Curious Profession**

THE Dunedin Choral Society recently offered 4YA the broadcast of the second act of "Hiawatha." Following on the success attending this effort the Choral Society, through their conductor, Mr. H. P. Desmoulines, have kindly arranged the broadcast of their forthcoming presentation of Edward German's "Merrie England." Listeners in the southern city will doubtless look forward to this broadcast as a musical treat, and the Dunedin Choral Society is to be congratulated on the spirit shown in co-operating with 4YA to the extent of broadcasting the whole performance.

A Popular Song

WE have received a copy from composer of song "Always Keep Smiling." This has been sung at 2YA by Uncle George, and is a popular item. Advertisement relating to copies appears in our advertising columns on back page.

Rum Radio

THERE are many strange jobs in the world, says "Radio News," but few stranger than that of a young Englishman who has just returned home on a visit. When at work he is a wireless operator on a big "bootlegging" organisation on the East Coast of America.

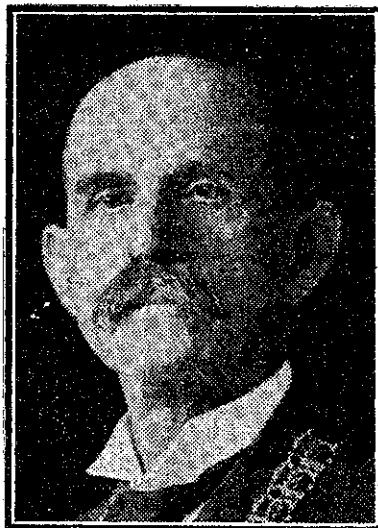
Radio, it seems, is an intrinsic part of any 100 per cent. efficient rum-running organisation. It is used to keep the ships in touch with developments ashore, to give the "All clear" signal when the cases of liquor are rushed to the shore in racing motor-launches and thence in bullet-proof cars to their destination.

Our distinguished visitor complains that, owing to police supervision, he has constantly to be moving his apparatus. All communications, both by telephone and short-wave radio, are conducted in code. Sometimes the police find out the code; then the bootleggers have all the bother of making up a new one.

A favourite way of keeping the code out of harm's way is to put it in an envelope and post it off to yourself. The police are not yet wise to this.

Relay of "The Holy City"**Hamilton Church Choir's Splendid Performance**

ON Wednesday last 1YA relayed the cantata "The Holy City" from Hamilton, the performance being presented by St. Paul's Methodist Church Choir. The Mayor of Hamilton (Mr. J. R. Fow) in a short address thanked the Radio Broadcasting Company for its efforts in relaying the performance and congratulated the choir on its excellent performance. Mr. A. R. Har-



MR. FOW,
Mayor of Hamilton.

—Photo, Cartwright.

ris, the general manager of the Radio Broadcasting Company, sent the following telegram to His Worship the Mayor of Hamilton subsequent to the performance:—

"Relay to Auckland and broadcast from 1YA of St. Paul's Methodist Church Choir was received here most clearly last night, and choir's rendering of 'The Holy City' undoubtedly one of finest presented in New Zealand. Heartily congratulate members of choir and organist, Mr. Webster. Your speech was also most interesting and we reciprocate the very kind sentiments you expressed towards the company."

The excellence of the presentation was due in no small measure to the efforts of the conductor, M. T. S. Webster, well-known to radio audiences through his excellent organ broadcasts at 1YA some two years ago.

CALLER: "Is Mr. Jones in? This is Mr. Smith who has come to see him."

Butler (a radio enthusiast): "Yes, sir, will you kindly stand by for a moment?"

Radio Census**America Leads the Way**

A DECISION of far-reaching importance in the development of American radio was reached when by a vote of 85 to 18, the Senate moved a "radio census to be taken in 1930 apart from the decennial population census," says an American paper.

The vote was taken with practically no debate and only one Senator spoke in opposition. The industry stands to benefit tremendously from such a measure. In a country as huge as America there has hitherto been no means of procuring accurate data, and the statistics it has furnished the Government from time to time are admittedly guess work. Manufacturers have constantly demanded that the Government should help them to establish a trustworthy basis for calculation, but the Department of Commerce has hitherto not taken steps to co-operate.

The latest "guess" was made by a large manufacturing firm early this year. It placed the number of receiving sets of all grades at 9,640,000, with 45,000,000 listeners and estimated that approximately 19,000,000 of the 28,000,000 homes in the United States were without wireless sets.

The radio census would also provide the means for a much fairer wireless administration than exists to-day. It would make possible the allocation of broadcasting facilities on the basis of "radio population" in given areas. To the broadcaster, wireless advertiser, and political campaigner it would furnish an accurate count of the number of listeners reached by a particular station.

It will indeed be interesting to see what this census will disclose and how far this "guess" differs from the actual

TEACHER (who is working up to a lecture on the wonders of radio): "Can any of you tell me something that talks, sings, and plays but was not in existence twenty years ago?"

Handy-Andy: "Yes'm, oh yes ma'am."

Teacher: "What is it?"

Handy-Andy: "Me!"

Exide.

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MEAN DEPENDABILITY.

Installed at 2YA Wellington.

All sizes.

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Advt.: The Mullard Wireless Service Company,
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Mullard for Efficiency, Mullard for Economy! Mullard valves with the wonderful P.M. Filament give you louder and clearer reception at less cost.

Mullard .06 valves operate at a filament current of only .06 amps; this means money saved to you, because your battery charging costs are enormously reduced. It means trouble saved to you, because many weary journeys to the charging station are avoided.

Get a set of Mullard .06 valves for your receiver—they are made either with English or American bases—and enjoy better radio at less cost. Obtainable from ALL GOOD Radio Dealers.

The New Mullard A.C. Valves will fit any American Electric Set and improve the results.

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N.Z. Selling Agents: SPEDDING, LTD., Box 463, Auckland; Box 1531, Wellington; Box 922, Christchurch; Box 516, Dunedin.

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MOTOR REPAIR SPECIALISTS.

All Makes of Radio Batteries, and Motor Accessories Stocked.
Whippet Service Station. Authorised Chevrolet Station.

Replies.

INTERESTED (Westport): You heard a Japanese—probably JOAK, but see notes by "Switch."

"A. K." (Nelson): Probably KHJ (Los Angeles) and 2GB, but details of this latter too vague for reliable identification.

R. T.S. (Lyttelton): There are several stations broadcasting the landing of the Graf Zeppelin, so without approximate frequency or dial-reading we cannot help you.

The Record Log.

LISTENERS will remember in my notes to the "Record" I mentioned Miss Miller's log, which to date, June 16, 1929 was 503, and another writer has placed it less, but my information was gained through listening to short-wave station 2XAD, Schenectady, New York, on June 16, 1929. A message was read from Miss Jamie Miller, to Commander Byrd, the announcer stating that the number of stations heard by Miss Miller to date on her one-valve receiver was 503, including two Australian. Miss Miller has been an invalid for 21 years. I hope in the near future for those interested in DX reception, to have Miss Miller's log to date for publication.—A. P. Morrison.

Was it 2GB?

WITH the "Crystal and Valve" with 3-valve performances, and have logged 3YA, 2YA, 2FC (nearly every night after 2YA closes down), 3AR. Last night I heard some station just below 3YA, 10.30 p.m. (N.Z. time). Orchestral, "In a Clock Store," followed by two or three more orchestral pieces and a song, 11.0 p.m., tenor solo, "Ben Bolt." Followed by soprano solo, "Home Sweet Home," and a fox-trot, "Old Man Sunshine." Can anyone identify?—K. Dixon (Kelburn).

DX Competition.

AFTER a bad spell of static, conditions seem to be improving. I have added several stations to my log lately. KOA, Colorado, 830 kilocycles (good speaker); WOC, Iowa, 1000 kilocycles (good speaker); 4ZB, Dunedin; WIXG, Hartford, Connecticut, 1606 kilocycles (full speaker); KTHS, Arkansas, 1040 kilocycles (full speaker). I logged WIXG last night, 27th, testing out their new 50 k.w. station. The announcer said that the high-frequency current was finding its way into the shielded control room, and causing poor modulation. The gramophone records were quite good, but speech was rough. I think the strength of this station is enough to reach well over Australia. This station is about 50 miles north-east of New York. Could you please tell me how far this is from here?

With the exception of 2ZQ, 2ZK, ZL2XS, and JOAK, all my receptions are American. I have now 22 from U.S.A., and about ten more to come. My log now totals 80 stations, on a home-made set, with ordinary triode valves, and all my American stations have been logged this year.—KAUSPANKA (Hawke's Bay).

(Kauspanka has now the greatest log of verified stations. Mr. Ellis is second with 60. WIXG is about 8000 miles distant.—Ed.)

An American to Identify.

HAVE any of the Americans changed their frequency? On Sunday night last we logged a station which we plainly heard announced as KPO, San Francisco, three times, 380 metres. In

THE D.X. CLUB

Views and News.

"Listeners' Guide" it is given as 441. We also heard Los Angeles last night on 368 metres, but did not get the call letters, although could hear quite plainly what the announcer was saying.

We heard a foreign station announcer saying what we thought sounded like they were testing and were sending out on 7 kilowatts, but his voice was husky, and could not get the letters, of which there were four. We got him on 31½ or about 295 metres. He played "Carolina Moon" about five minutes past seven. It is not 2KY, Sydney.

Does a wave trap tend to lessen the strength of signals?—Puzzled (Master-ton).

[A wave trap very slightly weakens the signals. American stations change their frequency quite frequently.—Ed.]

Another American.

CAN any reader give me the call sign and location of a station I heard a few degrees above 3AR on Wednesday night, August 28, playing the record "Carolina Moon" at 9.30 p.m.? I was unable to get the call sign on account of continual Morse transmission. I succeeded in bringing in 3UZ, Melbourne on 319 metres last Tuesday night on two valves at good 'phone strength. Has any other listener noticed that just lately a Jap, whose call sign I do not know, has been putting a whine into 4QG, Brisbane's transmission, and has any other DX listener been able to log 5CL, Adelaide, on two valves, with any strength? I am finding it hard to separate 5CL and 2YA, and am wondering if any other listener has had a similar experience.—N. D. Campbell (Auckland).

Jap. Stations.

THE Americans are slowly gaining in power now, and with the advent of so many high-powered sets, listeners in good localities should be able to compile a good log this coming season. Generally speaking, reception from most New Zealand and Australian stations has been good the last few months. The main Australians have come through with ample volume on most nights, and static has been very mild; in fact, we have had very little. Monday, the 26th, was a gala occasion in California (25th in Calif.). Quite a number of stations were working overtime and stayed on the air to relay the landing of the Graf Zeppelin. At 7.30 p.m. (N.Z. time) I heard KHJ announce that the Graf had been sighted about 50 miles away, and they were expecting her to arrive at any time. Being called away just then, I did not hear any more until 11.30 p.m., and to my surprise the station was still going strong. So also were KFVB and two others on KSL and KMTC's wave-lengths. They were all relaying from the hangar ground. The Hollywood station was strongest with KHJ a good second. The

Graf Zeppelin.

AT 6.45 p.m. on Monday, August 26, I picked up KHT broadcasting organ music and reporting the arrival of the Graf Zeppelin. I held it till 8 p.m., when 1YA, just above, started up. After 10 p.m. I had it again with description of arrival of Zeppelin. It was still going after 11 p.m., when I left it.

Can anyone identify the following station? At 9.55 p.m., August 26 (N.Z. time), an orchestral piece, "The Vagabond Lover." Later a man said, "We'll hear the 'Blue Boy' again." 10.16: Spoke of Graf Zeppelin giving places it had passed on its journey round world. And then something about "returning to our Los Angeles studio." This was followed by studio items (vocal and orchestral), with reports of Zeppelin intermittently given. About 11 p.m. there was a long talk about Zepp. The time was then stated to be "something after 3 o'clock Pacific Coast time." I missed the call letters, but heard the words "National Broadcast Company." The station came in just above 3LO, so it must have been about 375 metres wavelength.—Inery (Te Awamutu).

Quick Work.

I DESIRE to thank all those who answered my query as to whom the American station transmitting the description of the St. Louis Robin flight was. I have since verified that station as KMOX, St. Louis.

We have only had our 7-valve electric receiver for a month and a half, and so far I have heard and verified 41 stations, all on the loudspeaker. Seven of them are Americans, all of which I picked up since I last wrote. Keep up the DX notes. They are great, and I am sure everyone looks forward to reading them.—"Beginner" (Hastings).

For Sale or Exchange.

See page 32 for column of casual advertisements.

Consign your Household Goods by RAIL

MANY people pay dearly for their experience—but the wise man profits by the experience of others.

Those who have had to transfer their household effects from one town (or island) to the other, have learned the wisdom of consigning by rail. Special vans, smooth tracks and substantially reduced rates save time, worry and expense.

Obtain quotations from the nearest
Stationmaster, Goods Agent, Business
Agent or District Manager.

Heaviside Layer Theory

Research by Professor E. V. Appleton.

IT is announced that Professor E. V. Appleton, F.R.S., has been awarded the Morris Liebmann memorial prize for 1929 by the American Institute of Radio Engineers, for making the most important contribution to radio science during the last twelve months.

Professor Appleton occupies the chair of Physics at King's College, and has for the last five years been associated with the Radio Research Board in investigating the nature of the Heaviside Layer and its effect on long-distance transmission.

In the early days of wireless it was thought that signal waves could not travel freely through the ether except in a straight line. Other scientists held that, for some peculiar reason, the speed of propagation increased considerably as the waves travelled upwards, with the result that they were automatically bent downwards again towards the earth's surface.

The Bending Effect.

IT is now definitely known that they are prevented from escaping into interstellar space by the action of the so-called Heaviside Layer, which is an area where the rarefied atmosphere is strongly ionized.

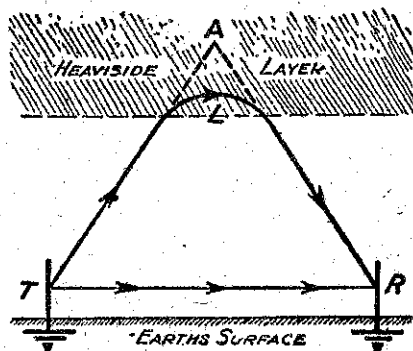
An ionized gas, containing a large proportion of free electrons, acts upon the waves in the same way as a metallic conductor. In other words it presents an almost impenetrable barrier in the outward direction, at the same time it reflects the waves back to the earth, more or less as a mirror reflects light.

The reaction of the ionized layer to the impact of a wireless wave may be briefly explained as follows: Owing to the extreme tenuity of the air in these regions, the free path of the active electrons is comparatively long. In fact, it

may extend over many alternations of the electric force of the field of radiation, i.e., of the wireless wave.

Such electrons will therefore be vibrated or oscillated by the incoming wave, without any loss or dissipation of energy, thus acting to retransmit the waves back in the direction of least resistance, i.e., downwards towards the earth.

According to our authority the action of free electrons should be regarded as one tending to increase the velocity



Illustrating Heaviside Layer Theory.

city of the upper part of the wave as it enters the Heaviside Layer, relatively to the lower part of the wave. This results in bending the whole wave forward, until it changes direction and emerges downwards, in much the same way as a ray of light is refracted or bent when passing from one medium to another of different density.

Whether the process is actually one of reflection or refraction is of little consequence. We know by observation that the result is to throw back the wave to earth, and so prevent its escape into outer space.

Professor Appleton has devoted considerable time and ingenuity to the problem of measuring the effective height of the Heaviside Layer above ground.

Experiments with 6 BM.

One method that has been successfully applied depends upon an interference effect which occurs between the upper or space wave and the lower or earth-bound wave, owing to the different distances traversed by the two.

Suppose, for instance, that station T is transmitting to a receiver at R. The earth-bound or direct wave from T to R obviously travels a shorter distance than the space wave T L R received after reflection from the Heaviside Layer.

For a given working wave-length the difference between the lengths of the two paths may correspond to a certain number of complete waves, so that both arrive at the receiver in phase.

In actual practice this is seldom the case. There is usually a fraction of a wavelength over, and this gives rise to out-of-phase conditions at the receiver. Sometimes the two waves add together and sometimes they oppose each other, with the result that the signals fade periodically. Now if the working wavelength is deliberately and periodically varied between an upper and lower limit of frequency at the transmitter T, a "beat" effect is produced in the receiver R which depends solely upon (a) the difference between the two wave-length limits used, and (b) the difference in distance between the path of the space wave and that of the earth-bound wave.

The "beat" frequency can be ascertained by direct observations, whilst the difference between the two wave-lengths transmitted is known, as is the distance T R, i.e., the direct path of the earth-bound wave. By equating these known factors the length of the path T L R is first calculated, and the height of the Heaviside Layer is then determined by a simple process of triangulation.

Day and Night Altitudes.

A series of experiments on these lines has been carried out between the Bournemouth B.B.C. Station and a receiver at Oxford, corresponding to a distance T R between transmitter and receiver of approximately 160 kilometres.

It was found that the difference between the two wave-paths T R and T L R amounted to 80 kilometres at night, corresponding to a height above ground of 85 kilometres for the Heaviside Layer. During the daytime, owing to the ionizing effect of the sun's rays, the layer expands downwards until it reaches a level of between forty and fifty kilometres above the earth's surface.

Auckland Notes

THERE is universal satisfaction over this week's announcement in the "Record" that Auckland is to have a dinner music session from Tuesday next. Many of the more fortunate among us, who possess sets of the requisite power, have enjoyed regularly the 6 to 7 p.m. session supplied by 2YA, and we shall continue to do so, but on Monday nights only, when our own station is silent. On other evening meal times 1YA will provide in

thousands of homes that "atmosphere" at dinner which can be created only by that music which can only be supplied by a broadcasting station, with the best recorded music of the world at its disposal. The dinner music session at 1YA marks another distinctive progression in broadcasting service in the north, and the effect of its inauguration will soon be observed by increases of licenses, and more particularly by a marked growth of radio trade.

Using a couple of sets of headphones, a family can quite comfortably enjoy an evening programme, but the idea of sitting down to the evening meal with the 'phones over the ears is in itself so humorous that the effect of the new music session can at once be forecast. There will result a big demand for sets, large or small, which will operate loudspeakers, for the speaker is daily becoming a more and more urgent requirement. On the local market there are now several cheap efficient models of electric receivers, specially designed for local reception, and trade in these should be decidedly brisk.

One wonders, too, to what extent the dinner music session will be used in restaurants and hotel dining rooms. In even our most expensive hotels mechanical music has now replaced the two or three instrument "orchestras" of former years. Broadcasting, at the present juncture, will not replace this gramophone music, but it may well supplement it, and set a standard of dinner music which can be followed by the hotel instrument after 7 p.m. or when 1YA is not on the air.

OVERTIME for 1YA once more on

Monday night. "Wrestling" was in progress, strenuous "wrestling," and listeners enjoyed the accounts of it quite as much as they marvelled at the pandemonium which broke loose in the hall and rattled many a speaker with its intensity.

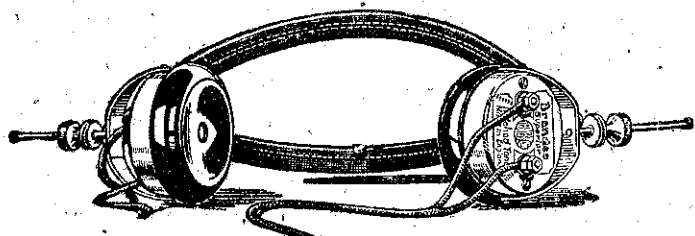
IT is a long time since we have had anything more enjoyable than the first section of "La Traviata," so ably introduced and so splendidly broadcast from records on Tuesday evening. On the following day quite a number of music lovers whom the writer met were most enthusiastic over their enjoyment of the preceding night's reception, and expressed the hope that such features in the programme would be provided regularly.

THOSE local listeners who complain of the fading here of 2YA should have been listening in to the Masterton relay of the Ranfurly Shield game between Wairarapa and Canterbury. Reception was absolutely perfect on the writer's set, and not a syllable of the excellent description was missed from the time 2YA changed from records to an account of the game already in progress. Both the announcer who detailed the game and the officials at the station are to be congratulated upon a most meritorious performance. Our brother and sister listeners in Canterbury must also have had a treat.

THE writer has heard no more regarding the proposal for an Auckland radio exhibition, but understands that the scheme is still "in the air." What we want is the scheme "On the air," and we hope to get it there, too.

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"'Tis the deep music of the rolling world,
Kindling within the strings of the waved air—
Aeolian modulations."

—Shelley.

By
Bolton
Woods

A Classical Jazzist.

RAIE DA COSTA, a brilliant pupil of Tobias Matthay, is a recent recruit to variety. She went to England from South Africa with the intention of displaying her exceptional abilities on the concert platform. The difficulties were heart-breaking so she decided to pack up her traps and return to Cape Town. On the verge of departure, she composed a song for Layton and Johnstone, appropriately entitled "When I Say Good-bye to You." It was an immediate hit and the disappointed pianist turned her thoughts in the direction of the "halls." One good thing led to another. Her decision to forget Bach and Beethoven for the nonce and apply her nimble fingers to jazz, resulted not only in music-hall engagements; her work found favour and straightway she became a gramophone celebrity, known to millions as "The Parlophone Girl."

Two of the items during the dinner session at 1YA on Saturday, September 14, are records played by Raie da Costa.

Tolstoi on Wagner.

TOLSTOI and Wagner had nothing in common, and the great Russian was merciless in his criticisms of the equally great German. Here is an account of a performance of "Siegfried" taken from Tolstoi's "What is Art?"—"When I arrived, an actor in tight-fitting breeches was seated before an object that was meant to represent an anvil. He wore a wig and a false beard; his white and manicured hands had nothing of the workman about them; and his easy air, prominent belly, and flabby muscles readily betrayed the actor. With an absurd hammer he struck—as no one else would strike—a fantastic-looking sword blade. One guessed he was a dwarf because when he walked he bent his legs at the knees. He cried out a great deal, and opened his mouth in a queer fashion. The orchestra also emitted peculiar noises like several beginnings that had nothing to do with one another. Then another actor appeared with a horn in his belt, leading a man dressed up as a bear, who walked on all fours. He let loose the bear on the dwarf, who ran away, but forgot to bend his knees this time. The actor with the human face represented Siegfried. He cried out for a long time, and the dwarf replied in the same way. Then a traveller arrived—the god Wotan. He had a wig, too; and, settling himself with his spear in a silly attitude, he told Mime all about things he already knew, but of which the audience was ignorant. Then Siegfried seized some bits that were supposed to represent pieces of a sword, and sang, 'Heaho, heaho, hoho, Hoheo, haho, hoho.' And that was the end of the first act." A re-

cord of "Siegfried—Fire Music" will be used at 1YA on Friday, September 13.

The Soldiers' Hymn.

THE composer of the tune "Even-tide" to "Abide With Me" was W. H. Monk, editor of one edition of "Hymns, Ancient and Modern." His life was devoted to the service of church music, and for forty years, during which time he held the post of organist both at King's College in the Strand, and at St. Matthias, Stoke Newington, he devoted himself to the advancement of good congregational singing. In writing of this tune, Mrs. Monk said: "It was written at a time of great sorrow—when together we watched, as we did daily, the glories of the setting sun. As the last golden rays faded he took up some paper and pencilled that tune which has gone over all the earth."

The 1st Battalion Wellington Regiment Band have included "Abide With Me" in their programme in commemoration of the Battle of the Somme (1916), to be broadcast from 2YA on Thursday, September 12.

Two Different Egmonts.

WHEN in 1800 it was decided to perform Goethe's "Egmont" in Vienna, Beethoven was commissioned to write for it the introductory and incidental music, which finely matches the dramatic story. Beethoven's sympathy was always readily enlisted in favour of any cause which held out a promise of relief to the downtrodden and oppressed, and the heroic figure of the young Egmont in Goethe's play, struggling for the freedom of the Netherlands against the tyrant Philip II of Spain, made a strong appeal to his imagination. That the real Egmont, as history's ruthless hand has drawn him for us, was a much less heroic figure than Goethe and Beethoven would have us believe, matters but little now. Posterity owes him thanks at least for a great play, and for some of Beethoven's finest music. The 2YA Orchestra will play the "Egmont" overture on Monday, September 9.

A "Make-Weight" Song.

THE best-known song by Landon Ronald is undoubtedly "Down in the Forest," regarding which he tells a curious story. "I had written a cycle of songs called 'The Cycle of Life' and felt somehow that the balance was wrong, and that another song was required in the middle of the album. I wrote and told the author, Harold Simpson, my feelings, and he sent me 'Down in the Forest.' I wrote the music in half an hour, and took it to Engel, and thought so little of it that I didn't even wish to play it for him. He insisted, however, and I did so, remarking, 'It will never sell a copy, but it is just the bit of make-weight I want for the cycle.' He agreed with me, but

his partner who happened to be present said, 'You never can tell. It might be a big seller.' He was quite right in his prediction." Mr. W. J. Trewern will sing "Prelude" from the "Cycle of Life" at 3YA on Sunday, September 8.

A Master of Overtures.

THE name of Francesco Ezechiele Ermengildo Cavaliere Suppe Demelli gives uncertain clues to this composer's nationality. He was of Belgian descent, but his family had lived for many years in Italy. Ultimately he settled in Vienna, where he was known as Franz von Suppe. In the course of his busy life, he composed, according to one authority, 165 light pieces for the stage, as well as bigger and more important works, including two grand operas, a mass, and a requiem, and that list takes no account of such early works as another mass, which was performed when he was only fifteen. The programme at 3YA on Wednesday, September 11, opens with Suppe's "The Beautiful Galathea."

A Composer 'Cellist.

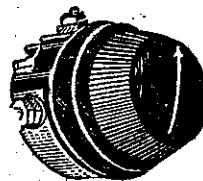
THE composer of the famous suite of serenades (Spanish, Chinese, Cuban, and Oriental), is a grandson of the Irishman, Samuel Lover, who wrote "Handy Andy." Victor Herbert was born in Dublin in February, 1859, and

went to Germany at the age of seven to study music. He studied the 'cello particularly, and was solo 'cellist in Germany, France and Italy, also playing first 'cello in Strauss's Orchestra in Vienna, and later in the Court Orchestra in Stuttgart. He went to America in 1886, and the influence of this cheery Irishman on the taste of the American theatre-goer has been very great. For a time he and De Koven alone supplied the stage with real music, and although he wrote more light operas than any other man of his time, he was never careless in his work, his music being always popular but never banal. The Suite of Serenades will be heard from 3YA on Friday, September 13.

Genial Schubert.

SCHUBERT'S B flat trio was written in October, 1827, just after the composer's return from his very happy holiday with the Pachlers at Graz. This may account for the genial and happy character of the work, though it must be confessed that the second part of the "Winter Journey" song-cycle, written about the same time is very strongly tinged with sadness. It is a curious fact, though, that Schubert's melancholy moods seldom showed themselves in his works.

The Studio Trio will play the Rondo from the trio, at 3YA on Thursday, September 12.



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Talking Posters

An Original Scheme

A CORRESPONDENT to the "Manchester Guardian" remarks that Londoners are very soon to see the very latest thing in advertisements—"Talkie Posters." This innovation is to be placed not in the adjacent palatial cinema houses but in front of its tall buildings, where electrical advertisements now appear.

The "talkie" advertisement, which comes from America, consists of a poster mounted on a wooden frame and the figures portrayed talk as they do on the screen, but in this case the talk is as to the merits of the wares which the poster is advertising.

The necessary equipment, consisting of a radio receiver, power amplifier, automatic phonograph, switches and time clocks, are encased in a receptacle behind the poster sign, so that the terrible illusion is complete.

In San Diego the set is usually tuned in to one of the local broadcasting stations and the poster announcements are made by phonograph records synchronised by the time clocks to be made in between the station broadcasts. The correspondent remarks that fortunately this will not be possible in London even if permission be granted for the use of poster "talkies."

Unusual Radio Effects

A CLERGYMAN writes to "Wireless Weekly" mentioning several rather interesting instances of radio's advent into other fields than mere commercialism.

"We live in an age of marvels," he writes. "Recently an American stated that a cow gave twice as much milk when a radio set was installed in the outhouses and the set was in action when the milking was done. An Italian has also claimed that a dozen hens that were brought up in a pen in which a wireless set operated all the afternoon, increased their egg production a hundredfold."

"For four years I have had a row of chrysanthemums ten yards in length in my garden. Two yards of the row at one end produced much better flowers than the rest of the row the first year, and I wondered why, for no extra manure or care had been bestowed on that particular spot. The second year I had moved the roots that produced the good blooms to the other

end, so that they might get more sunshine, but again it was the same end that produced the blooms that everyone admired, whereas those at the other end were quite ordinary. It dawned on me the third year that my wireless 'earth' was buried where the blooms gave such satisfaction, and I came to the conclusion that the ether waves had something to do with the extra growth and beauty. No gardener who knew something about electricity was able to assist me very much, so I decided to experiment further. This year I buried my earth wire in such a way that it would affect the whole row of chrysanthemums equally, and I had a most wonderful show of blooms. One wonders where radio's results will end!"

Radio in Russia

Developing the Musical Taste of a Nation

AT the end of 1928 there were 377 registered stations in Russia. Of these 101 were the organs of the Universities, the Institutions of Scientific Research, and similar bodies.

The Soviet has taken a great step forward in the recent edict which authorises amateur enthusiasts to construct new broadcasting stations under official supervision.

Territorially the advance of radio in Russia has been no less than remarkable. A powerful station was recently established in Turuchansk, which is near to the North Pole. Its chief use will be in the service of scientific and also in that of polar explorers.

In Moscow there has been established a Society of Music for the Masses, whose purpose is to stimulate interest in the classics and music of the better type.

Already workmen have shown signs of keen interest in the arts since this innovation.

Similarly in Leningrad, the problem of popular music is occupying official attention and the authorities have introduced in the clubs and restaurants, quartets specialising in chamber music. In various cities of Russia there can be found various clubs for the study of the music of different countries.

An innovation which was daring but nevertheless one which has been a great success, is that of the installation of the Radio University by the Institution of Public Instruction. In this university all lecturing is done by means of radio. It is open for only a

short period of the year, but has met with a great response, especially among the lower working classes, who evidence a great hunger for knowledge.

The university embraces three faculties, general instruction, economical administration and co-operation, and business methods.

Thus the course prepares those who are desirous of developing their intellects and this type of education is open to all those who possess wireless receivers. At the end of the educational year a kind of examination is held and a certificate of competence awarded to those who meet with success.

"Pirates" Punished

Caught by Their Own Efforts

TWO pirates were recently caught as the results of their own efforts. One unfinancial listener in Auckland lauded his short-wave set to the skies and invited certain officials to come and view the set themselves and to criticise its reception. After a little investigating had taken place it was discovered that he had no license, and the Court in which he later appeared inflicted a substantial fine.

Another enthusiast requested one of the uncles of 2YA to send greetings to one of his children. Fruitlessly was the license roll searched for his name, and he received greetings himself in the form of a summons to court. Henceforth he will doubtless prefer to give birthday greetings without the aid of the Broadcasting Company.

One gentleman of Australia wrote copious letters of criticism to the Press containing unjust and unmerited statements as to the standard of Australia's radio concerts. He even declared that the license fee was exorbitant, and that the concerts were not even worth listening to for nothing. This critic was not even satisfied with writing to the Press, but even went to the length of seeking a personal interview with the manager. In his letter asking for an interview the writer omitted to give his address, and when a search was made of the license roll for this it was noticed that his name was not there, and it was proved that he had been an unfinancial listener and critic for nearly three years. The fine inflicted will certainly show whether or no he has a sense of humour.

Talking of "pirates," the following from "Popular Wireless" is interesting:—

"The scene was a crowded courtroom, And the defendant's speech began—
Look 'ere, gents, I'm not a wireless pirate, But the inspector called too soon.
I owns, I 'ad a good 'igh aerial up, And a wire in the hearth beneath,
But I never listened one iota— 'Cause someone 'ad sold me a pup.
A pup—no less—that's what, Not even worth a dog's licence."

WOOD screws are easily driven into soft wood, but it is always advisable to drill a hole for them if the wood is of the type that is liable to split, or the baseboard is of plywood.

Wireless in the Trawling Industry

THE successful working of many of the trawler companies operating off the New South Wales coast is due in no small measure to the fact that they are equipped with wireless apparatus suitable for both telegraphy and telephony transmissions and reception. As a result the trawlers are in periodic communication with their headquarters at Sydney, and also in communication with the company's other trawlers operating off the coast.

At Pennant Hills a special telephone transmitter is installed for communication with these vessels, while a special service is operated at the La Perouse station for the reception of trawler communication. Both stations are owned and operated by A.W.A.

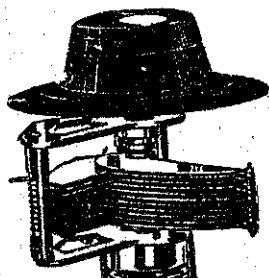
Apart from being able to give information to the trawler owners as to what stores, etc., are required by the vessels on arrival in Sydney, the service proves of outstanding value in enabling one vessel to inform the other of the excellence or otherwise of fishing ground in a particular locality. If one vessel is making particularly good hauls of fish, other trawlers of that line would be advised, and, as a result of this communication, there might be a material increase in the quantity of fish caught. The service has demonstrated its value to such an extent that every trawler operating from Sydney is fitted with an installation of this kind.

Sound Recording

A WIRELESS engineer has invented an apparatus which registers the human voice on a disc of celluloid. This disc can be placed on an ordinary gramophone and give the same effect as a record. The progress of registering the voice is very much simpler and less expensive than the registering of sound on gramophone records. Soon one will be able to send a record of one's voice to a friend instead of the usual letter.

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A. E. STRANGE 404 WORCESTER ST.,
CHRISTCHURCH.

A SUGGESTION has been made to "Switch" that just before a race meeting near Wellington a talk on the various horses engaged thereat would prove attractive to many listeners to 2YA, Wellington.

A GOOD performance was put up by 3YA, Christchurch, in rebroadcasting the arrival of the Graf Zeppelin at Lakehurst, U.S.A., last week. The musical-items picked up from the American short-wave station were heard with splendid effect from 3YA.

IN a great state of alarm, a novice phoned "Switch" recently. He had accidentally coupled up one of his blocks of B batteries the wrong way round. The B batteries were brand new, and he was eager to know whether they had been damaged by his carelessness. He was much relieved on being informed that no harm could have been caused by the mistake, although the set would not operate under such conditions.

YET another Wellington listener who has imagined that radio valves should be used till they burn out has been disillusioned. He reported to "Switch" that long-distance reception had gone off considerably during this winter. On being asked how long he had been using his valves he casually replied, "Not two years yet." He was induced to purchase a new set of valves, and now he says that the Australian and Japanese stations are "louder than ever."

MANY New Zealand listeners will be interested to learn that Captain P. P. Eckersley, chief engineer of the British Broadcasting Corporation, has resigned his position. The wonderful efficiency of the broadcasting stations in the Old Country is attributed to the genius of Captain Eckersley.

THE writer was lately called upon to settle an argument as to the power employed by broadcast station 2LO, London. This station is rated at 2000 watts, but it is shortly to give place to a new station which will be rated at 30,000 watts.

THE mystery concerning the Japanese broadcast station on a wavelength just below that of 4QG, or a higher frequency than 4QG, is exercising the minds of some Australian listeners. A listener writes to the Sydney "Wireless Weekly" stating that "the announcer says JOACK very distinctly, while another Jap comes in below 2BL, and the announcer of this station says JOAK, so I am sure there is such a Jap as JOACK. I get JOACK and JOAK at 7.30 any night at speaker strength that could be heard half a mile away so I don't think I am making a mistake." The Jap "below 2BL" is undoubtedly JOAK, but the other Jap close to 4QG is said to be JOIK.

A WELLINGTON journalist who owns a smart little imported portable four-valve set, embodying the Browning-Drake circuit, has for several months wondered why it functioned no better with his outside aerial than with the loop aerial attached to the set. He made an examination of his lightning arrester and found that his father in installing it had cut the aerial lead-in where it fastened on to the arrester and connected the remainder of the lead-in to another screw in

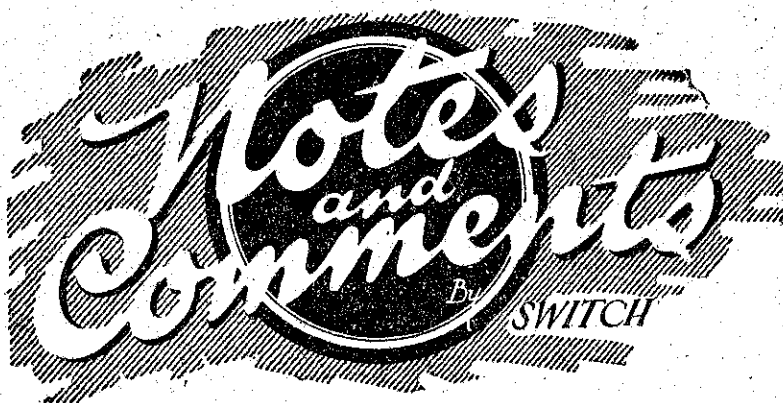
the arrester. There was, thus, a decided break in his lead-in. After rectifying the matter the owner of the set logged a total of 18 broadcast stations audible on the loudspeaker.

A SUGGESTION has been made to "Switch" that the Wellington Radio Society should emulate the feat of the Hastings Society in putting on such an attractive concert last week. The difficulty in Wellington is to find performers who have not already been heard from 2YA, Wellington, so thoroughly has the 2YA programme organiser combed this city for talent. The merit of a concert by the Wellington Society would depend a good deal upon the presentation of something new. At Hastings, as was demonstrated the other night, there is a wealth of talent not previously exploited, and generally beyond the reach of the YA stations.

THE recent wrestling matches at Auckland were well put across by 1YA, Auckland, and the "atmosphere" was realistically conveyed over the air by the uproarious cries of the spectators. "Switch" followed the ringside description very closely, and was able to visualise what was happening. The man at the microphone certainly worked hard, and no one can begrudge him the satisfaction he found in announcing the fact every time he quenched his thirst from a bottle of water.

FROM conversations with several members of the Wellington radio "trade" it was gathered that there is a definite desire that the radio exhibition should become an annual fixture. One "trader" said: "The public which is still unacquainted with broadcast listening is given an opportunity at these exhibitions of observing that all intricacies which scared so many people away from radio have entirely disappeared. Anyone can now operate a set after a half a minute's demonstration."

THE New York "Radio News" says "One of the saddest things that ever happened to the radio industry was the vastly over-publicised premature birth of television some two years ago. After being led to believe that comparatively simple apparatus would enable the enthusiast to project a fair-sized 'movie'—received by radio—on the walls of the home, it is no wonder that the ill-defined, postage-stamp-size silhouette image actually received (when luck was good) soured many an enthusiast. The infant (radio vision) is doing nicely; but it is not yet hardy enough to sit up in a perambulator and face the public.

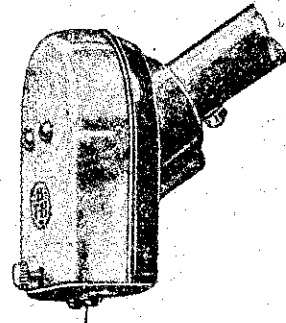


THE Melbourne "Listener In" says: "Miss Etta Field, who broadcast from 2FC recently, is one of New Zealand's leading sopranos. She is now making her initial appearances in Australia after three years in London, Paris, and Vienna, where she studied with some of the most notable teachers in the world. Miss Field says she became home-sick, and that is why she came back to Australia and New Zealand."

AS one value in all A.C. sets does not perform any radio function, its duty being merely to rectify the alternating current from the household mains, the custom is now being adopted to describe A.C. sets as, say, "seven valves and a rectifier." This is fairer to the prospective purchaser.

A HOME-BUILDER showed the writer his set the other day, and, as a multi-valve outfit, it was a capital job on the whole. Trouble was experienced, however, in the form of distortion, despite the use of a power valve tested with various loudspeakers. Finally the discovery was made that the grid-leak was of the wrong value. An adjustable grid-leak was substituted, and adjusted until the correct value was arrived at. All traces of distortion then disappeared. The owner had been condemning 2YA as being distorted, but now he finds it was his set and not the station that was at fault.

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The B.T.H. Gramophone Pick-up is an exceptionally sensitive and thoroughly reliable instrument. It is capable of translating the impressions on the record into electrical impulses with very faithful results over a wide range of musical frequencies.

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Next Week's Features

1YA Notes

SUNDAY'S church service will be relayed from St. David's, the Rev. D. C. Herron preaching. Following the church service, a studio concert will be presented, to which Mrs. I. Raynes, Miss Edna Peace, and Mr. G. Colledge will contribute.

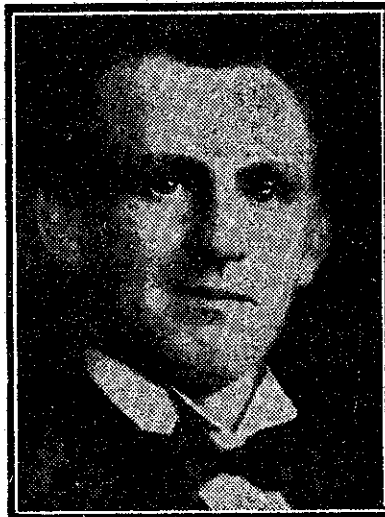
Tuesday will see an interesting news session—a talk on "Motoring," by Mr. Geo. Campbell, and a continuation of the W.E.A. series—"The Beginning of Speech," by Mr. Gilbert Archey. An excellent evening of operatic selections will comprise the concert session, to which Miss Madge Clague will sing selections from "Samson and Delilah," "Faust," and "Carmen." Miss Mary Coffield, a soprano of unusual merit, will render excerpts from "The Chocolate Soldier," "Bohemian Girl," and "Maritana." The "Arioso" from "Pagliacci" will be sung by Mr. R. Errington, whilst the Studio Trio will play an Hungarian Fantasia and the "Entr'acte No. 2" from "Rosamunde." Mr. A. B. Chappell will continue his popular series of "Topical Talks." The concluding portion of the programme will be in the hands of Mr. R. W. Strong, who will present Part 3 of "La Traviata."

THE Auckland Salvation Army Congress Hall Band is to provide the major portion of Wednesday's programme, and under the direction of Bandmaster Paice can be relied on to give an excellent account of themselves. Bandmaster Paice, who took the baton subsequent to Bandmaster Goffin's retirement, has now been conducting for some nine months, and his efforts are producing a fine combination. Mr. Walter Brough, Mrs. L. Parry, and Miss Phyllis Hazel are sufficiently well known to listeners to need no introduction, as is also the case with Mr. T. T. Garland, who will contribute humorous items.

MORE scampers with the Radio Scamps for Thursday evening indicates that Auckland listeners will

spend a mirth-provoking evening. This programme will be continued until 11 p.m. with dance music, and will be preceded by the announcer's weekly book review.

MRS. DAISY BASHAM and the Clarion Quartet promise an English national song recital for Friday evening. The recital will be of a classical nature, and will cover the period, 15th, 16th, and 17th century. The pro-



Mr. T. Moffitt, tenor, and a member of 1YA Broadcasting Choir.

—S. P. Andrew, photo.

gramme will be opened with a short relay from Messrs. Lewis Eady's Hall, and Mr. T. Harris will provide the humorous portion of the evening. Miss Margot Toner, whose piano work has been very favourably commented on, will play two preludes by Besley, the Studio Trio's rendition being of a light nature.

A DESCRIPTION of the interprovincial match, Auckland v. Wellington, is Saturday's sports attraction, the announcing being in the capable hands of Mr. W. J. Meredith. At 7.40 p.m. Mr. G. D. Rutter will continue his talks on gardening, taking as his subject "The Flower Garden." Vaudeville items by the Bohemian Duo (Hawaiian numbers) and the Four Originals, with a comedy item entitled "Smiles," will comprise the concert session in the main, whilst Mr. G.

chestra will include Beethoven's well-known "Egmont Overture" and "Light Hungarian Rhapsodie No. 1."

ON Tuesday the Agricultural Department will continue at 7.40 p.m. its series of lecturettes "For the Man on the Land." The concert session will be of a light and popular nature, comprising the latest vocal hits sung by Miss Lily Charles, humorous items by Mr. C. Browne, and light instrumental numbers by the Studio Orchestra. These latter will include a selection of "Four Indian Love Lyrics" by Woodforde Finden. Soprano solos will be contributed by Mrs. E. Ransom Myers and Mrs. Wilbur Davies.

THURSDAY is the anniversary of one of the epic battles of the Great War—"The Somme"—and advantage has been taken of the occasion to broadcast a special programme of commemoration. The programme will be in the hands of the 1st Battalion Wellington Regiment Band, under Lieutenant B. J. Shardlow, assisted by the Lyric Quartet. The evening will be reminiscent of the Great War period. Vocal solos will include "A Long Way to Tipperary," "Keep the Home Fires Burning," and other favourites, whilst an item of special interest to be presented by the band will be an "Episode of the Great War." This will be descriptive of incidents in camp life and will be presented with full effects.

ON Friday evening the Philharmonic Quartet will present a programme featuring vocal gems from "The Rebel Maid." Mr. Edwin Dennis will sing the Goring Thomas "O Vision Entrancing," and Miss Madge Freeman, the possessor of a rich contralto voice, will sing, among other numbers, a selection from "Carmen." Miss Pauline Rodgers is to play Rachmaninoff's "O Sharp Minor Prelude" and Paderewski's "Melodie." Orchestral items will include "The Rebel Maid" selections, which will be played as an overture by the 2YA Orchestra.

THE ever-popular Melody Four will have charge of Saturday evening's programme, and it needs little more than the mention of their name to convey to listeners some idea of the programme's excellence.

"THE Soldiers' Chorus" from "Faust," "Tom, Tom, the Piper's Son," and "Riding on a Dream Train" will be

Barnes and the Studio Orchestra will render light songs and popular orchestral selections respectively.

Miss G. Gamman, elocutionist, heard regularly from 1YA.

—S. P. Andrew, photo.

2YA Notes

THE church relay on Sunday evening will be broadcast from St. Andrew's Presbyterian Church, where the preacher will be the Rev. R. J. Howie. Following the church service the concert arranged by the Wellington Municipal Tramways Band, under the conductorship of Mr. E. Franklin, will be relayed.

A PROGRAMME comprised mainly of classical items has been arranged for Monday, Miss Myra Sawyer contributing Thompson's "Nightingale and the Rose" and a Negro Spiritual selection. Maori songs will be given by Mr. Claude Moss, "Waiata Poi" with orchestral accompaniment and "Home, Little Maori, Home." Mrs. W. J. Coventry, contralto, will sing "The Wood Pigeon," while Mr. Austin Blackie will render tenor solos, and pianoforte selections of a classical nature will be played by Miss Marjorie King. The Rev. Dr. Gibb will lecture at 9 p.m., his subject being "The League of Nations." Items by the or-

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rendered as concerted numbers, Messrs. Berthold and Bent will render steel guitar and Hawaiian selections, sketches supervised by Mr. Victor Lloyd, and orchestral selections of a light type by the studio orchestra will contribute to a fine week-end programme.

3YA Notes

SUNDAY'S church service will be relayed from the Church of Christ, Moorhouse Avenue, the preacher being Pastor A. R. Tebay. Following the church service, 3YA will rebroadcast 2YA's relay of the concert from His Majesty's Theatre given by the Wellington Municipal Tramways Band.

ON Monday evening an excellent programme arranged by Derry's Military Band will be presented from 3YA Studio, their items on this occasion including a Slavonic march—"The Entry of the Bulgars"—and pot pourri of airs, introducing many of the best-known classic and popular melodies. Miss Gwenda Tomkin and Miss Nellie Billcliff will appear for the first time in a duo role in lighter selections. Miss Mayis Kinsella will also make a re-appearance after an absence of some six months in humorous recitals.

WEDNESDAY'S operatic and miscellaneous programme will include selections from "Merrie England," Wagner's "Meistersingers" and Gounod's "Faust." Miss Nellie Lowe will be heard in two contralto numbers from the Woodforde-Finden Suite, "A Lover in Damascus," whilst soprano solos will be rendered by Miss Merle Miller. "Caro Mio Ben" and "Placer d'Amor." The instrumental trio will contribute to an interesting evening's entertainment with "The Turkish Rondo" (Litolff) and selections from Wagner's "Meistersingers."

A PROGRAMME of classical and old English airs will symbolise Thursday's concert session, the programme being mainly in the hands of the Melodious Four. Their items will include Lane Wilson's "The Sailor's Life," "Sound the Merry Tambourin" by Harper, and the popular "Bells of St. Michael's Tower." Miss Maiona Juriss promises selections from Henry VIII., and the Dolce Duo will be heard in an arrangement of "The Londonderry Air." Mr. Harold Beck will play as a 'cello solo Schumann's "Slumber Song," and other instrumental selections will be presented by the Trio.

AFTER a long absence, Mr. Jack Smyth will return to the microphone on Friday's popular programme with the items "I've Turned Devonshire Down," and a character sketch, "The Old Sundowner." Scottish songs will be featured by Mr. Bracey Wilson, and banjoline items will be presented by the Rose and Thistle Duo. Popular dance items will be played by the Bailey Marston Dance Orchestra, the programme continuing until 11 p.m.

A FEAST of old-time music is in store on Saturday, when the whole programme will be devoted to old-time songs, dances and recitations, "Silver Threads Among the Gold," "Alice Where Art Thou," "Mary of Argyle," each give an inkling of what is sure to be one of the most popular broadcasts from 3YA for some time. The artists for the evening will include Mr. Bernard Rennell, Mrs. D. W. Stallard, Mr. L. C. Quane, and the Williams Orchestra, whilst Theo and Francis Gunther will be heard in concertina duos.

4YA Notes

ON Sunday, 4YA will broadcast the evening service from the Methodist Central Mission Church, the preacher being the Rev. G. B. Hinton. Following the church relay the St. Kilda Band concert will be broadcast from His Majesty's Theatre.

MONDAY'S operatic programme will introduce a new performer to listeners-in in the person of Madame Florence Carlson, whose contributions will include the popular "Samson and Delilah" selection, "Softly Awakes My Heart," and Borgia's "Brindisi." Mr. Angus Gorrie will continue his series with the poets, dealing this week with Oliver Wendel Holmes. Miss Dorothy Skinner, Messrs. Les Stubbs and W. Harrison will also contribute vocal items, whilst the studio trio will provide instrumental selections. Mrs. Ernest Drake will play as a pianoforte solo Paradies' "Toccata," an old Italian style of composition.

THE St. Kilda Band will contribute to the main portion of Tuesday's broadcast, and included among their numbers will be Introduction to "Faust," and selections from "Mariana." The assisting artists will include Mr. A. G. Cooke, bass, who will sing Mascheroni's "Thou Art My Life" and the popular "Peg Away." Miss Valda McCurdy will make her welcome reappearance before the microphone, and her fine soprano voice will be heard to excellent effect in "The Waltz Song," from "Tom Jones." Elocutionary items will be provided by Miss Beryl Cooper.

WEDNESDAY evening's programme will be a musical treat for 4YA listeners, the occasion being the complete broadcast of the Dunedin Choral Society's presentation of German's "Merrie England." This light opera is one of the most popular and famous with the musical public, and the Dunedin Society can be depended upon to provide an excellent rendition under the baton of their conductor, Mr. H. P. Desmoulin.

A SELECTION of classical, both vocal and instrumental, items of unusual merit will be presented on Friday.

In addition Mr. G. M. Salmon, a well-known bass-baritone in Otago, will make his initial appearance before a Dunedin radio audience. His items will include Handel's "Hear Me Ye Winds and Waves" and "Bois Epaïs," by Lully. Miss Rae Stubbs, who has not appeared before the microphone for some six months, has selected three interesting numbers, including Brahms's "Love Triumphant." Miss Irene Horniblow's contralto voice will be heard to advantage in a Schubert bracket, "By the Sea" and the "Morning Greeting." The 4YA Broadcast Trio will play the Schubert-Liszt "Serenade," and Mr. C. Russell Smith will provide elocutionary items.

On Saturday evening 4YA will relay 3YA's special programme of old-time music.

Children's Sessions

1YA.

TUESDAY, SEPTEMBER 10:

This evening, if they are in port, the orchestra from the "Northumberland" have promised to entertain the radio family. These boys are very old friends, and an hour with them is eagerly looked forward to. Uncle George on deck with stories.

WEDNESDAY:

Uncle Tom, having been away to the country for a few days, will have many adventures to tell, and a member of the Mount Eden Boys' Brass Band will blow us some merry tunes.

THURSDAY:

Peter Pan and Cinderella off to some new place to spend the children's hour. Cousins will go too, and will provide songs and recitations.

FRIDAY:

"Oh Where, Oh Where, Has Our Little Nod Gone?" He is deserting us for a month, so Aunt Jean is in charge, assisted by Ken and Jean.

SATURDAY:

Miss Reynolds is bringing her pupils to the studio, and they will provide a variety of items, while Cinderella will have stories and jokes to relate.

SUNDAY:

Children's song service conducted by Uncle Leo, assisted by the Grange Road Baptist Sunday School.

AT 2YA.

MONDAY, SEPTEMBER 9.—Uncle Jeff with song and puzzle will be here to-night, and will greet the birthday folk. We will have, too, a cheery little entertainer from the pupils of Miss Agnes Wright.

TUESDAY.—Uncle Jim will tell you where the fairy presents are hidden. We welcome for the first time to-night the Seatoun Children's Choral Society under Mr. Keith. The children will sing for you happy songs and sea chanties.

THURSDAY.—Uncle George will give the Birthday greetings. Cousin Marjorie will have a song and story for the little folk, Punch and Judy will make merry music, Ella will sing, and Cousin Herbert will bring his oboe and a lively book of nursery rhymes.

FRIDAY.—Big Brother Jack with cheery old Robinson to-night. The story book lady will be here, too, also cousins Sinclair and Eva, who will tell stories in verse and song. Cousin Oscar will play jolly tunes on his saxophone.

SATURDAY.—Uncle Toby and Aunt Gwen with Cousin Ailsa will be with you for the bedtime hour this evening, and a bright merry time is promised.

SUNDAY.—The Children's Song Service will be conducted by Uncle George assisted by the Taranaki Street Methodist Sunday School under Mr. W. E. Howe.

3YA SESSIONS

MONDAY, SEPTEMBER 9:

"Scatterjoy a-journeing
Per Shank's pony and aeroplane;
Over the hills and dales we love,
Before we trip back home again.

WEDNESDAY:

Now, Wednesday comes, with Laugh-
ter and Fun,
Mother Hubbard her sweet songs
will trill.
Uncle Frank is here too, and he
knows what to do,
And with stories this short hour
will fill.

THURSDAY:

In his bag that he carries
Uncle John has to-night
Some gramophone records, quite
cheery.
And with stories so true,
Both for me and for you,
That he leaves us with hearts
bright and merry.

FRIDAY:

This is the night that some choristers
come
(Continued on page 25.)



A Cooking Hint

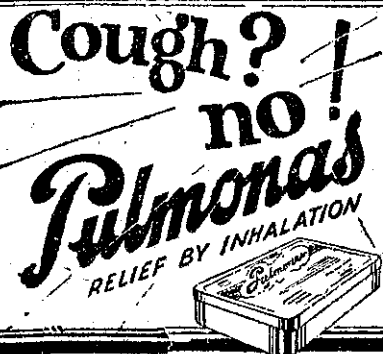
—One that means lighter, fluffier, more delicious scones and cakes—with higher food value and a much longer period of freshness.

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Full Programmes for Next

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Sunday, September 8

1YA, AUCKLAND (900 KILOCYCLES).—SUNDAY, SEPTEMBER 8.

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.30 : Close down.
 6.0 : Children's Session, conducted by Uncle Leo.
 6.55 : Relay of service from St. David's Church:—Preacher: Rev. D. C. Herroon.
 Organist: Mr. E. S. Craston.
 8.30 (approx.) : Studio Concert:
 Orchestra and chorus—Milan Symphony Orchestra, "Aida Grand March" (Verdi) (Columbia Record 02808).
 Contralto—Miss Edna Peace, (a) "The Birds of Bethlehem" (Davies); (b) "Ave Maria" (Kahn).
 Monologue—Bramsy Williams, "Not Old" (Day) (Columbia Record 01178).
 Organ—Francis W. Sutton, "Suite Gothique—Introduction" (Boellman) (Columbia Record 01378).
 Baritone—Mr. G. College, "How Willing My Paternal Love" (Handel).
 Soprano—Mrs. I. Raynes, "Song of Thanksgiving" (Allitsen).
 Selection—H.M. Grenadier Guards Band; "Merrie England" (German) (Columbia Record 02804).
 Contralto—Miss E. Peace, "Oh, For a Burst of Song" (Allitsen).
 Baritone—Mr. G. College, (a) "The Carpet" (Sanderson); (b) "A Farewell" (Liddle).
 Pianoforte—Ignaz Friedman, "Hark Hark the Lark" (Schubert) (Columbia Record 03630).
 Soprano—Mrs. I. Raynes, "The Nightingale" (Batten).
 Royal Philharmonic Orchestra, "Summer Night on the River" (Delins) (Columbia 03632).
 9.30 : Close down.

2YA, WELLINGTON (720 KILOCYCLES).—SUNDAY, SEPTEMBER 8.

- 3.0 : Afternoon session—selected studio items.
 4.30 : Close down.
 6.0 : Children's service, conducted by Uncle George.
 7.0 : Relay of service from St. Andrew's Presbyterian Church—Preacher: Rev. R. J. Howie. Organist and Choirmaster: Mr. Frank Thomas.
 8.15 (approx.) : Relay from His Majesty's Theatre of recital by the Wellington Municipal Tramways Band, under the conductorship of Mr. E. Franklin.
 Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—SUNDAY, SEPTEMBER 8.

- 3.0 : Afternoon session—Selected studio items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 5.30 : Children's song service contributed by children of the Church of Christ.
 6.15 : Hymn chimes from studio.
 6.30 : Relay of service from Church of Christ, Moorhouse Avenue. Preacher, Pastor A. E. Tebay. Organist, Miss E. Hepburn. Musical director, Mr. H. Ames.
 7.45 : (approx.) Studio concert.
 Mezzo-soprano, Miss Millicent Jennings, "Cradle Song of the Virgin" (Choral Drama—"Bethlehem") (Rutland).
 Tenor—Mr. W. J. Trewern, "An Evening Song" (Blumenthal).
 Organ—Reginald Goss-Custard, "The Question" (Wolstenholme) (H.M.V. Record E415).
 Mezzo-soprano—Miss Millicent Jennings, (a) "O Lord Have Mercy" (Stradella); (b) "Coming Home Along" (Brahe).
 Tenor—Mr. W. J. Trewern, (a) "Cycle of Life—Prelude" (Landon Ronald); (b) "Spirit so Fair" (Donizetti).
 Organ—Reginald Goss-Custard, "The Answer" (Wolstenholme) (H.M.V. Record E415).
 8.15 : (approx.) Rebroadcast of 2YA, Wellington (Relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band, under the conductorship of Mr. E. Franklin).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SUNDAY, SEPTEMBER 8.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.30 : Close down.
 5.30 : Children's song service, conducted by Big Brother Bill.
 6.30 : Relay of service from Methodist Central Mission. Preacher: Rev. G. B. Hinton. Organist: Mr. C. A. Martin.
 8.5 : (approx.)—Relay from His Majesty's Theatre of concert by the St. Kilda Band, under the conductorship of Mr. James Dixon.
 9.15 : Close down.

2YA, WELLINGTON (720 KILOCYCLES).—MONDAY, SEPTEMBER 9.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 3.40 : Relay from Messrs. Kirkcaldie and Stains' Tearooms of music by the Trio.
 4.0 : Selected studio items.
 4.30 and 4.50 : Sports results.
 5.0 : Children's session, conducted by Uncle Jeff.
 6.0 : Dinner session—"His Master's Voice" Hour:
 Suite—London Symphony Orchestra, "Czar Sultan" (Rimsky-Korsakov) (D1491).
 Waltz—International Concert Orchestra, "Waltz Dream" (Strauss) (Zonophone EE18).
 6.12 : Tacet.
 6.15 : Suite—New Light Symphony Orchestra, "Peer Gynt Suite, No. 2" (Grieg):
 1. Ingrid's Lament; 2. Arabian Dance (C1571).
 Instrumental—New Light Symphony Orchestra, "Prelude in G Minor" (Rachmaninoff) (Zonophone EE24).
 6.27 : Tacet.
 6.30 : Suite—New Light Symphony Orchestra, "Peer Gynt Suite, No. 2 (Grieg):
 1. Return of Peer Gynt; 2. Solveig's Song (C1572).
 Instrumental—New Light Symphony Orchestra, "Prelude in C Sharp Minor" (Rachmaninoff) (Zonophone EE24).
 6.42 : Tacet.
 6.45 : Instrumental—Philadelphia Symphony Orchestra, "Danse Orientale" (Glazounof) (E521).
 Waltz—International Concert Orchestra, "Sari" (Kalman) (Zonophone EE18).
 March—Philadelphia Symphony Orchestra, "March of the Caucasian Chief" (Ippolitoff-Iwanoff) (E521).
 6.57 : Tacet.
 7.0 : News session, market reports, and sports results.
 7.40 : Lecturette—Mr. H. C. South, "Books—Grave and Gay."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Egmont" (Beethoven).
 8.9 : Soprano—Miss Myra Sawyer, "Swing Low, Sweet Chariot" (Burleigh).
 8.13 : Pianoforte—Miss Marjorie King, (a) "Kriesleriana in G Minor" (Schumann); (b) "Sonata in B Flat Major" (Scriabin).
 8.20 : Baritone with orchestral accompaniment—Mr. Claude Moss, "Waiata Poi" (Hill).
 8.24 : Recital—Mr. Norman Aitken, "Pania of the Reef" (May Cottrell) (by request).
 8.31 : Instrumental—Orchestra, (a) "Dance of the Tumblers" (Rimsky-Korsakov); (b) "Chanson Indoue" (Rimsky-Korsakov).
 8.39 : Contralto—Mrs. W. J. Coventry, (a) "My Little Irish Cottage" (Summers); (b) "The Wood Pigeon" (Lehmann).
 8.46 : Tenor—Mr. G. Austin Blackie, "You Flaunt Your Beauty" (Lehmann).
 8.50 : Relay of organ recital by Mr. H. Temple White:
 (a) "Canzonetta" (Fryberger).
 (b) "Cuckoo and Nightingale Concerto" (Handel).
 9.2 : Lecturette—Rev. Dr. Gibb, "The League of Nations."
 9.11 : Instrumental—Orchestra, "Songs Without Words" (Mendelssohn).
 9.22 : Soprano—Miss Myra Sawyer, "The Nightingale and the Rose" (Thomson).
 9.26 : Baritone—Mr. Claude Moss, "Home Little Maori Home" (Hill).
 9.30 : Humour—Mr. Norman Aitken, "Mixed and Muddled" (Anon.).
 9.37 : Instrumental—Orchestra, "Reminiscences of Grieg" (Godfrey).
 9.45 : Contralto—Mrs. W. J. Coventry, "Three Fishers Went Sailing" (Hullah).
 9.49 : Tenor—Mr. G. Austin Blackie, "I Hear You Calling Me."
 9.53 : Instrumental—Orchestra, "Hungarian Rhapsody No. 11 (Liszt).
 10.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—MONDAY, SEPTEMBER 9.

- 3.0 : Afternoon session—selected gramophone items.
 4.25 : Sports results to hand.
 5.0 : Children's session, conducted by "Scatterjoy."
 6.0 : Dinner session—"His Master's Voice" Hour:
 Overture—H.M. Coldstream Guards Band, "Poet and Peasant" (Suppe) (C1315).
 Symphony Orchestra, "Love, the Magician" (De Fall) (D1453).
 6.12 : Tacet.
 6.15 : March—United States Army Band, "Army and Marine" (Starke) (Zonophone EE145).
 Waltz—International Novelty Quartet, "Cuckoo" (Jonasson) (Zonophone EE67).
 Waltz—Jack Hylton's Orchestra, "Spanish Rose" (Pearson) (B5481).
 Xylophone—Sam Herman, "Al Fresco" (Zonophone EE53).
 6.27 : Tacet.
 6.30 : New Light Symphony Orchestra, "In a Clock Store" (Orth) (C1308).
 March—Royal Opera Orchestra, "Marche Hongroise" (Berlioz) (C1279).
 Symphony Orchestra, "Spanish Dance" (De Falla) (D1453).
 6.42 : Tacet.
 6.45 : Schottische—International Novelty Quartet, "Lena" (Mewes) (Zonophone EE67).
 Pipe organ, piano, trombone, and harp—Shilkret's Rhythm Melodists, "When You're With Somebody Else" (Gilbert) (EA330).
 Waltz—Jack Hylton's Orchestra, "The Angelus was Ringing" (Damarell) (B5431).

Monday, September 9

1YA, AUCKLAND (900 KILOCYCLES).—MONDAY, SEPTEMBER 9.

SILENT DAY

Week-all Stations-to Sep. 15

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March—United States Army Band, "American Spirit" (Buglione) (Zonophone EE145).

- 6.57: Tacet.
- 7.0: News session.
- 7.30: Talk—Mr. Chas. Buckett, "More Athletic Reminiscences."
- 8.0: Chimes.
- Programme by Derry's Military Band, under the conductorship of Mr. J. M. Scott, and assisting artists:
- 8.1: March—Band, "The Middy" (Alford).
- Dance number—Band, "Ghost Dance" (Salisbury).
- 8.11: Mezzo-soprano—Miss Nellie Billcliff, (a) "Little Window Looking East" (Phillips); (b) "Lad's Love" (Coningsby Clarke).
- 8.15: Wurlitzer organ—Terence Casey, "I'm Lonely" (Coates) (Columbia Record 01501).
- 8.19: Instrumental—Studio Trio, (a) "Dream Castles" (Hope); (b) "Carissima" (Elgar); (c) "Fairy Frolic" (Quilter).
- 8.27: Tenor—Mr. Arthur T. Couch, "Oh, Promise Me" (De Koven).
- 8.31: Selection—Band, "The Girl in the Taxi" (Gilbert).
- 8.40: Soprano and mezzo-soprano duet—Misses Gwenda Tompkins and Nellie Billcliff, "Love Was Once a Little Boy" (Wade).
- 8.44: Humorous recital—Miss Mavis Kinsella, "Hoodoo McFiggins' Christmas" (Leacock).
- 8.49: Saxophone—Andy Sanella, "Jack and Jill" (Sanella) (Columbia Record 01186).
- 8.52: Baritone—Mr. Clive Hindle, "Sledge Song" (folk song).
- 8.56: Marche Slav—Band, "Entry of the Bulgars" (Lottner).
- 9.1: Weather report.
- 9.3: Instrumental—Studio Trio, (a) "Souvenir de Sorrento" (Severne); (b) "Reverie" (Ganne); (c) "Hungarian Dance" (Brahms).
- 9.13: Soprano—Miss Gwenda Tompkins, (a) "You Will Never Grow Old" (Drummond); (b) "The Fairy Painters" (Drummond).
- 9.18: Saxophone—Andy Sanella, "Aileen" (Sanella) (Columbia Record 01186).
- 9.21: Tenor—Mr. Arthur T. Couch, (a) "You've Got Your Mother's Eyes" (Drummond); (b) "Heare Tonu" (R. A. Horne).
- 9.27: Soprano and mezzo-soprano duet, "Misses Gwenda Tompkins and Nellie M. Billcliff, "Golden Slumbers" (Newton).
- 9.31: Pot-pourri—Band, "A Musical Jigsaw" (Aston).
- 8.42: Humorous recital—Miss Mavis Kinsella, "Jones Minor's Recitation" (Anon).
- 9.47: Wurlitzer organ—Terence Casey, "Bird Songs at Eventide" (Coates) (Columbia Record 01501).
- 9.50: Baritone—Mr. Clive Hindle, (a) "A Dream" (Bartlett); (b) "If I Were" (Richards).
- 9.55: Valse caracteristique—Band, "Angelus" (Lottner).
- March—Band, "Vimy Ridge" (Bidgood).
- 10.5: Close down.

4YA, DUNEDIN (650 KILOCYCLES).—MONDAY, SEPTEMBER 9.

- 3.0: Town Hall chimes.
- 3.1: Selected gramophone items.
- 4.25: Sports results to hand.
- 6.0: Children's session, conducted by Uncle Allan.
- 7.0: News session.
- 7.40: Lecturette—Mr. Ken Willis, "Fruit Preserving."
- 8.0: Town Hall chimes.
- 8.1: Overture—Band of H.M. Coldstream Guards, "H.M.S. Pinafore" (Sullivan) (H.M.V. C1283).
- 8.9: Contralto—Miss Dorothy Skinner, "Fair Spring is Returning" (Saint-Saens).
- 8.13: Selection—4YA Broadcasting Trio, "Daughter of the Regiment" (Donizetti).
- 8.23: Tenor—Mr. W. Harrison, (a) "'Tis the Day" (Leoncavallo); (b) "My Girl and I" (Clarke).
- 8.30: Instrumental—Marek Weber's Orchestra, "La Tosca—Potpourri" (Puccini) (H.M.V. C1413).
- 8.38: Pianoforte—Mrs. Ernest Drake, "Toccata" (Paradies).
- 8.43: Mezzo-soprano—Madame Florence Carlson, "Softly Awakes My Heart" ("Samson et Delilah") (Saint-Saens).
- 8.47: Violin—Mr. Frank Earsons, "Ave Maria" (Schubert).
- 8.52: Baritone—Mr. Les Stubbs, (a) "Requiem" (Homer); (b) "Little Irish Girl" (Lohr).
- 8.53: Cello—Mr. P. J. Palmer, "La Cinquantaine" (Marie).
- 9.3: Weather report.
- 9.5: Recital—Mr. Angus Corrie, "With the Poets—Oliver Wendel Holmes."
- 9.23: Instrumental—4YA Broadcasting Trio, (a) "Le Cygne" (Saint-Saens); (b) "My Heart at Thy Sweet Voice" (Saint-Saens).
- 9.31: Contralto—Miss Dorothy Skinner, (a) "My Heart is Beating" (Handel); (b) "When All Was Young" (South).
- 9.36: Tenor—Mr. W. Harrison, "On With the Motley" ("I Pagliacci") (Leoncavallo).
- 9.42: Instrumental—Victor Concert Orchestra, (a) "Amaryllis" (Thys); (b) "Minuet in G" (Paderewski) (H.M.V. EA240).
- 9.48: Mezzo-Soprano—Madame Florence Carlson, (a) "Brindisi" (Borgia); (b) "Hindu Song."
- 9.54: Baritone—Mr. Les Stubbs, "The Curfew" (Gould).
- 9.58: Selection—Kaufman's Orchestra, "The Gypsy Baron" (Strauss) (H.M.V. C1393).
- 10.6: Close down.

Tuesday, September 10

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, SEPTEMBER 10.

- 3.0: Afternoon session—Selected studio items.
- 4.0: Literary selection by the Announcer.
- 4.8: Studio items.
- 4.25: Sports results to hand.
- 5.0: Children's session conducted by Uncle George.
- 6.0: Dinner session—"Columbia" Hour:
- Suite—Orchestre Symphonique de Paris, "L'Arlesienne": (1) Prelude; (2) Entr'acte—Pastorale, L'Etang de Vaccares; (3) Choeurs—Suivant la Pastorale (Bizet) (01324-25).
- 6.12: Tacet.
- 6.15: Selection—Columbia Symphony Orchestra, "Faust" (Gounod) (02708).
- Violin—Toscha Seidel, "Chanson a Rabe" (Rimsky-Korsakov) (09505).
- 6.27: Tacet.
- 6.30: Suite—Orchestre Symphonique de Paris, "L'Arlesienne": (1) La Cuisine de Castelet; (2) Minuetto; (3) Le Carillon; (4) Adagietto (Bizet) (01326-27).
- 6.42: Tacet.
- 6.45: Orchestral—Orchestre Symphonique de Paris, "Farandole—L'Arlesienne" (Bizet) (01328).
- Band Garde Republicaine de France, "Carmen—Entr'acte" (Bizet) (Columbia 02747).
- 6.56: Tacet.
- 7.0: Talk—Mr. George Campbell, "Motoring."
- 7.15: News and market reports.
- 7.40: Talk—Mr. Gilbert Archey, M.A. (under the auspices of the W.E.A.), "The Beginning of Speech."
- 8.0: Chimes.
- 8.1: Baritone—Mr. D. Wrathall, (a) "Eri Tu" (Verdi); (b) "The Wanderer" (Schubert).
- 8.9: Contralto—Miss Madge Clague, (a) "Fair Spring is Returning" (Saint-Saens).
- 8.13: Tenor—Mr. R. Errington, (a) "Serenata" (Toselli); (b) "Farewell" (Liddle).
- 8.20: Instrumental—Studio Trio, (a) "Rosamunde—Entr'acte 2" (Schubert); (b) Minuet, "Countess of Westmoreland's Delight" (Shield) (1754/-1809).
- 8.28: Talk—Mr. A. B. Chappell, M.A., "Topical Talk."
- 8.43: Soprano—Miss Mary Coffield, (a) "My Hero" ("Chocolate Soldier") (Strauss); (b) "I Dreamt that I Dwelt in Marble Halls" ("Bohemian Girl") (Balfe).
- 8.50: Pianoforte—Mr. Eric Waters, (a) "Jig" (Lulli); (b) "Les Barricades Mysterieuses" (Couperin).
- 8.55: Tenor—Mr. R. Errington, "Arioso" ("I Pagliacci") (Leoncavallo).
- 8.59: Contralto—Miss M. Clague, (a) "Sequidille" ("Carmen") (Bizet); (b) "When All Was Young" ("Faust") (Gounod).

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- 9.6 : Weather report.
 9.8 : Instrumental—Studio Trio, "Rosika" (Hungarian Fantasia) (Roberts).
 9.16 : Soprano—Miss M. Cofield, "Scenes That are Brightest" ("Maritana") (Wallace).
 9.20 : Gramophone lecture-recital—Mr. R. W. Strong, "La Traviata" (Verdi). (Columbia Records 9638/43).
 10.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, SEPTEMBER 10.

- 3.0 : Chimes of the G.P.O. Clock.
 3.1 : Selected gramophone items.
 4.30 and 4.50 : Sports results.
 5.0 : Children's session, conducted by Uncle Jim.
 6.0 : Dinner session—"Columbia Hour":
 Waltz—Symphony Orchestra, "Artists' Life" (Strauss) (02577).
 Instrumental—Columbia Symphony Orchestra, "Al Fresco" (Herbert) (01092).
 Foxtrot—La Nuova Orchestra, "Di Napoli" (Romani) (3066).
 Band—H.M. Grenadier Guards, "La Paloma" (Yradier) (0987).
 6.13 : Tacet.
 6.15 : Instrumental—Ketelbey's Orchestra, "In a Monastery Garden" (Ketelbey) (02688).
 Waltz—Jacque Jacobs' Ensemble, "Over the Waves" (Rosas) (02556).
 6.27 : Tacet.
 6.30 : Instrumental—Columbia Symphony Orchestra, "Bandinage" (Herbert) (01092).
 Waltz—Royal Serbian Tambouritzza Orchestra, "Kosovo" (3066).
 Waltz—Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (02577).
 March—H.M. Grenadier Guards Band, "Twist and Twirl" (Kottum) (0987).
 6.43 : Tacet.
 6.45 : Waltz—Royal Philharmonic Orchestra, "Blue Danube" (Strauss) (04169).
 Waltz—Jacque Jacobs' Ensemble, "España" (Waldteufel) (02560).
 6.57 : Tacet.
 7.0 : News session—market reports and sports results.
 7.40 : Lecture—Representative of the Agricultural Department, "For the Man on the Land."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Merrie England" (German).
 8.9 : Soprano—Mrs. E. Ransom Myers, "Philomel" ("Monsieur Beaucaire") (Messenger).
 8.13 : Humour—Mr. C. Browne, "The Umpteen Serial Picture" (Kirby).
 8.20 : Instrumental—Orchestra, "L'Enfant Prodiges" (Wormser).
 8.23 : Baritone—Mr. Wilbur Davies, "To-morrow" (Keel).
 8.32 : Popular songs—Miss Lily Charles, (a) "Broadway Melody" (Brown); (b) "You Were Meant For Me" (Brown).
 8.39 : Selection—Orchestra, "La Paloma" (Yradier).
 8.45 : Soprano—Mrs. E. Ransom Myers, (a) "A Ring of Roses" ("The Dollar Princess") (Fall); (b) "Only a Rose" ("The Vagabond King") (Friml).
 8.52 : Instrumental—Orchestra, "Four Indian Love Lyrics" (Woodforde-Finden).
 9.0 : Weather report.
 9.2 : Baritone—Mr. Wilbur Davies (a) "A Sailor's Paradise" (Richards); (b) "How They All Love Jack" (Adams).
 9.9 : Instrumental—Orchestra, Request Number.
 9.14 : Humour—Mr. C. Browne, (a) "The Bard Bombarded" (Sims); (b) "The Cabby's Farewell to his Steed" (Beech).
 9.21 : Popular song—Miss Lily Charles, "Where is the Song of Songs for Me?" (Berlin).
 9.25 : Instrumental—Orchestra, "Trot De Cavaliere" (Rubinstein).
 9.30 : "Brunswick" Dance Programme:
 Tenor—Frank Munn, "The Dear Little Shamrock" (Cherry) (4332).
 Foxtrot—Colonial Club Orchestra, "Walking With Susie" (Cottler) (4347).
 Foxtrot—Copley Plaza Orchestra, "Old-Fashioned Lady" (Silver) (4323).
 9.39 : Accordion—Galla-Rini, "Polka Brillante" (4060).
 Foxtrot—Dave Rubinoff's Orchestra, "A Garden in the Rain" (Gibbons) (4344).
 Foxtrot—Colonial Club Orchestra, "That's You, Baby" (Gottler) (4347).
 Waltz—Dave Rubinoff's Orchestra, "Blue Hawaii" (Baer) (4344).
 9.51 : Tenor—Allen McQuhane, "Mother Machree" (Young) (4332).
 Foxtrot—Copley Plaza Orchestra, "Dream Mother" (Lewis) (4323).
 Foxtrot—Copley Plaza Orchestra, "I Never Guessed" (Vallee) (4333).
 10.0 : Comedian—Sandy MacFarlane, "My Highland Rose" (MacFarlane) (4235).
 Foxtrot—Bob Harings' Orchestra, "My Cairo Love" (Zamecnik) (4316).
 Foxtrot—Copley Plaza Orchestra, "Lady of the Morning" (Messenheiner) (4333).
 Waltz—Bob Harings' Orchestra, "By and Bye, Sweetheart" (Yellen) (4316).
 10.12 : Accordion—Galla-Rini, "Sicily of Mine" (Tarantola) (4060).
 Foxtrot—Colonial Club Orchestra, "Love Me or Leave Me" (Kahn) (4342).
 Foxtrot—Hal Kemp's Orchestra, "The Things That Were Made for Love" (Tobias) (4387).
 10.21 : Comedian—Dick Robertson, "I Kiss Your Hand, Madame" (Lewis) (4341).
 Foxtrot—Hal Kemp's Orchestra, "That What I Call Heaven" (Solman) (4307).
 Waltz—Regent Club Orchestra, "Dear When I Met You" (Brown) (4314).
 10.30 : Piano solo with trumpet—Lee Sims, "Caressing You" (Klages) (4339).
 Foxtrot—Colonial Club Orchestra, "My Sin" (de Sylva) (4342).
 Foxtrot—The Cotton Pickers, "Rampart Street Blues" (Robinson) (4325).
 10.39 : Comedian—Sandy MacFarlane, "Will You Come to Bonnie Scotland Where the Blue-bell Grows" (MacFarlane) (4235).
 Foxtrot—The Cotton Pickers, "Kansas City Kitty" (Leslie) (4325).
 Foxtrot—Slatz Randall's Orchestra, "I Get the Blues When it Rains" (Klauber) (4331).
 Waltz—Regent Club Orchestra, "Underneath the Russian Moon" (Kendis) (4314).
 10.51 : Pianoforte—Lee Sims, "If I Had You" (Shapiro) (4339).
 Old-time Orchestra—Blue Ridge Ramblers, (a) "Old Joe Clark" (Trdtl.); (b) "Golden Slippers" (Trdtl.) (313).
 11.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, SEPTEMBER 10. SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, SEPTEMBER 10.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.25 : Sports results to hand.
 6.0 : Children's session, conducted by Big Brother Bill.
 7.0 : News session.
 7.30 : Lecture—Mr. Lloyd Ross, M.A., LL.B (under the auspices of the W.E.A.), "The War in the Air."
 8.0 : Town Hall chimes.
 Studio concert by the St. Kilda Band, under the conductorship of Mr. James Dixon, and assisting artists:
 8.1 : March—Band, "The Kangaroo" (Bailey).
 8.7 : Soprano—Miss Valda McCurdy, "Waltz Song" ("Tom Jones") (German).
 8.11 : Rio Marimba Orchestra, "My Isle of Golden Dreams" (Blaufluss) (Columbia 02635).
 8.15 : Recitals—Miss Beryl Cooper, (a) "The Day is Done" (Longfellow); (b) "The Feminine Grumble" (J.B.).
 8.20 : Intermezzo—Band, "Faust—Introduction" (Gounod).
 8.28 : Bass—Mr. A. G. Cooke, "Thou Art My Life" (Mascheroni).
 8.32 : Fantasia—Band, "Silverdale" (Allen).
 8.46 : Fisk University Jubilee Singers, "Little David" (trdtl.) (Regal G20521).
 8.50 : Selection—Band, "Maritana" (Wallace).
 9.0 : Weather report.
 9.2 : Xylophone duet—W. Byrne and W. W. Bennett, "The Two Imps" (Alford) (Columbia 02745).
 9.6 : Waltz—Band, "Irish Melodies" (Douglas).
 9.16 : Soprano—Miss Valda McCurdy, (a) "The Star" (Roger); (b) "The Willow" (Schubert).
 9.19 : Recital—Miss Beryl Cooper, "The Glory of the Garden" (Kipling).
 9.23 : Suite—New Queen's Hall Orchestra, "Petite Suite De Concert" (Coleridge-Taylor): 1 La Caprice de Nanette; 2 Demande et Response; 3 Un Sonnet d'Amour; 4 Tarantelle Fretilante (Columbia 02588).
 9.39 : Euphonium solo—Band, "For You Alone" (Gheel).
 9.45 : Bass—Mr. A. G. Cooke, (a) "Best of All" (Moir); (b) "Peg Away" (Bevan).
 9.50 : Fisk University Jubilee Singers, "Ezekiel Say de Wheel" (trdtl.) (Regal G20421).
 9.53 : March—Band, "Lancastrian" (Greenwood).
 10.0 : Close down.

Wednesday, September 11

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, SEPTEMBER 11.

- 3.0 : Afternoon session—Selected studio items.
 3.30 : Talk—Mrs. Wetténhall, "Women's Institutes."
 3.45 : Studio items.
 4.0 : Literary selection by Announcer.
 4.8 : Studio items.
 4.25 : Sports results to hand.
 5.0 : Children's session, conducted by Uncle Tom.
 6.0 : Dinner session—"Columbia" Hour:
 Selection—H.M. Grenadier Guards Band, "Merrie England" (German) (02804).
 Instrumental—Bournemouth Municipal Orchestra, "Idylle Bretonne" (Gennin) (02809).
 6.12 : Tacet.
 6.15 : Waltz—Jacque Jacobs' Ensemble, "L'Estudiantina" (Waldteufel) (01535).
 Instrumental—Plaza Theatre Orchestra, (a) "A la Gavotte" (Finck); (b) "Minuet" (Finck) (01439).
 March—H.M. Grenadier Guards Band, "Old Panama" (Alford) (01535).
 6.27 : Tacet.
 6.30 : Instrumental—Ketelbey's Concert Orchestra, "The Sacred Hour" (Ketelbey) (01528).
 Instrumental—Sanders' Orchestra, "Someday, Somewhere" (Rapee) (01521).
 Instrumental—Bournemouth Municipal Orchestra, "Fluttering Birds" (Gennin) (02809).
 6.43 : Tacet.
 6.45 : Quartet—Musical Art Quartet, (a) "Mighty Lak a Rose" (Nevin); (b) "To a Wild Rose" (McDowell) (01506).
 Instrumental—Sanders' Orchestra, "Sonny Boy" (De Sylva) (01521).
 March—H.M. Grenadier Guards Band, "Dunedin" (Alford) (01535).
 6.57 : Tacet.
 7.0 : News and market reports.
 7.40 : Talk—Mr. Norman Kerr, "Physical Culture."
 8.0 : Chimes.
 Studio programme by Auckland Salvation Army Congress Hall Band, under the conductorship of Bandmaster Paice, and assisting artists.
 8.1 : March—Band, "Wellington Citadel" (Scotney). Selection—Band, "Warriors of the Cross" (Kitching).
 8.17 : Baritone—Mr. Walter Brough, "A King's Man" (Hilliam).
 8.21 : Kinema organ—Chas. W. Saxby, "Serenade" (Drigo) (Zonophone Record A338).
 8.25 : Contralto—Miss Phyllis Hazell, (a) "Mammy's Little Coal Black Coon" (Johnston); (b) "The Star" (Rogers).
 8.32 : Cornet solo with band accompaniment—"Happy Day" (Leidzen).
 8.38 : Humour—Mr. T. Garland, "Comicalities."
 8.44 : Vocal octette—Members of the Band, "Heavenly Mansions" (Bovan).
 8.49 : Selection—Savoy Orpheans, "Lido Lady" (Rodgers) (H.M.V. Record C1301).
 8.57 : Soprano—Mrs. L. Parry, "A Birthday" (Cowen).
 9.1 : Weather report.
 9.3 : Baritone—Mr. W. Brough, (a) "What the Red-Haired Bo'sun Said" (Harby); (b) "Youth" (Allitsen).
 9.10 : Selection—Band, Gems from "Elijah" (Mendelssohn, arrgd. Hawkes).
 9.25 : Contralto—Miss Phyllis Hazell, "Melisande in the Wood" (Goetz).
 9.29 : Hymns—Band, (a) "Ebenezer"; (b) "Abberiswyth."

- 9.35: Talk—Mr. E. Garland, "A Fireside Chat."
 9.41: Soprano—Mrs. L. Parry, (a) "The Hawk" (Coningsby Clarke); (b) "The Bells of Aberdovey" (Old Welsh Melody).
 9.48: Selection—Band, "Homeward Journey" (Swanson).
 March—Band, "Liberator" (Marshall).
 10.2: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, SEPTEMBER 11. SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, SEPT. 11.

- 3.0: Afternoon session—Selected gramophone items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0: Children's session conducted by Mother Hubbard and Uncle Frank.
 6.0: Dinner session—"His Master's Voice" Hour:
 Selection—New Mayfair Orchestra, "Lilac Time" (Schubert-Chutsum) (C1457).
 Royal Opera Orchestra, "Carmen Ballet No. 1" (Bizet) (C1424).
 6.12: Tacet.
 6.15: Overture—National Symphony Orchestra, "William Tell" (Rossini) (Zonophone 2960-70).
 6.27: Tacet.
 6.30: Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of Bacchus" (Delibes) (C1418).
 Royal Opera Orchestra, "Carmen Ballet No. 2" (Bizet) (C1424).
 6.42: Tacet.
 6.45: Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier) (E522).
 Philadelphia Symphony Orchestra, "Nocturne No. 2—Fetes" (Debussy) (1507).
 6.57: Tacet.
 7.0: News session.
 7.30: Addington stock market reports.
 8.0: Chimes.
 8.1: Overture—Berlin State Opera Orchestra, "The Beautiful Galathea" (Suppe, arrgd. Artock) (H.M.V. C1527).
 8.9: Contralto—Miss Nellie Lowe, (a) "How Many a Lonely Caravan" (Woodforde-Finden); (b) "If in the Great Bazaars" (Woodforde-Finden).
 8.14: Pianoforte—Miss Frances Hamerton, "Five Sketches" (Swinstead).
 8.19: Tenor—Mr. Harold Prescott, (a) "Can This Be Summer" (Edwards); (b) "The English Rose" ("Merrie England") (German).
 8.23: New Light Symphony Orchestra, "Barcarolle" ("Tales of Hoffman") (Offenbach) (H.M.V. B2377).
 8.26: Mezzo-soprano—Miss L. Merle Miller, (a) "Caro Mio Ben" (Giordani), (b) "Ojacer d'Amor" (Martini).
 8.32: Male choral—Lay Vicars of Westminster Abbey, "Stars of the Summer Night" (Cruikshank) (H.M.V. B2781).
 8.35: Instrumental—Studio Trio, (a) "Turkish Rondo" (Hammel), (b) "Scherzo" (Reissiger).
 8.45: Recital—Mr. Sydney Comfort, "On the Depravity of Man" (White).
 8.51: Violin—Miss Irene Morris, "Chant Indoue" (Rimsky-Korsakov).
 8.55: Baritone—Mr. F. C. Penfold, "The Bandolero" (Stewart).
 8.59: Weather report.
 9.1: March—Philadelphia Symphony Orchestra, "Rakoczy March—Damnation of Faust" (Berlioz) (H.M.V. B27).
 9.5: Contralto—Miss Nellie Lowe, "Melisande in the Wood" (Goetz).
 9.10: Pianoforte—Miss Frances Hamerton, "Nocturne—Scherzo" (Grieg).
 9.15: Tenor—Mr. Harold Prescott, "Tis the Day" (Leoncavallo).
 9.21: Male choral—Lay Vicars of Westminster Abbey, "The Little Sandman" (West) (H.M.V. B2781).
 9.24: Instrumental—Studio Trio, (a) "The Mastersingers" Selection (Wagner), (b) "Humoresque" (Dvorak), (c) "Graesk Festaus" (Hartman).
 9.34: Mezzo-soprano—Miss L. Merle Miller, (a) "Song of Quietness" (Haydn Wood), (b) "Life and Death" (Coleridge-Taylor).
 9.39: Recital—Mr. Sydney Comfort, "My Beastly Eyeglass" (R. Henry).
 9.43: Violin—Miss Irene Morris, "Prize Song" ("The Mastersingers"—Wagner).
 9.47: Baritone—Mr. F. C. Penfold, (a) "For You Alone" (Geehl); (b) "Tomorrow" (Keel).
 9.53: Vocal trio—Miss L. Merle Miller, Messrs. Harold Prescott and F. C. Penfold, "Prison Scene Trio" ("Faust"—Gounod).
 9.57: Selection—Weber's Orchestra, "Faust" (Gounod, arrgd. Weber) (H.M.V. C1511).
 10.5: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, SEPTEMBER 11.

- 3.0: Town Hall chimes.
 3.1: Selected gramophone music.
 4.25: Sports results to hand.
 6.0: Children's session, conducted by Aunt Anita.
 7.0: News session.
 8.0: Relay from the Princess Theatre of the presentation of "Merrie England" by the Dunedin Choral Society, under the conductorship of Mr. H. P. Desmoulins.
 10.0: "His Master's Voice" Dance Programme:
 Medley waltz—Troubadours, "Popular Songs of Yesterday" (EB33).
 Foxtrot—Nat Shilkret's Orchestra, "Just a Sweetheart" (Shilkret) (EA464).
 Foxtrot—Shilkret's Orchestra, "When Sweet Susie Goes Stepping By" (Kaufman) (EA452).
 10.13: Tenor—Lewis James, "Roses of Yesterday" (Berlin) (Zonophone EE122).
 Hawaiian—Hilo Hawaiian Orchestra, "Honolulu Sweetheart of Mine" (Davis) (EA415).
 Waltz—Troubadours, "Was it Love?" (Caesar) (EA464).
 Foxtrot—Goldkettes Orchestra, "That's What Put the Sweet in Home" (Lowry) (EA487).
 10.25: Tenor—Barrington Hooper, "For You Alone" (Geehl) (Zonophone 5204).
 Foxtrot—Goldkettes Orchestra, "Sweethearts on Parade" (Lombardo) (EA487).
 Waltz—Troubadours, "Another Kiss" (Schertzing) (EA489).
 Foxtrot—Jack Hylton's Orchestra, "In the Woodshed She Said She Would" (Johnson) (EA480).

- 10.36: Male trio—Melody Three, "Remember Me to Mary" (Green) (Zonophone EE133).
 Foxtrot—Shilkret's Orchestra, "Jimmy Valentine" (Madden) (EA475).
 Selection—New Mayfair Orchestra, "This Year of Grace" (Coward) (EB37).
 10.48: Bass with chorus—Paul Robeson, "Plantation Songs" (C1585).
 Foxtrot—Rhythm Band, "Teach Me to Dance like Grandma" (Coward) (EA471).
 Foxtrot—Shilkret's Orchestra, "Gotta be Good" (Schertzing) (EA489).
 Foxtrot—Rhythm Band, "A Room With a View" (Coward) (EA471).
 Foxtrot—Jack Hylton's Orchestra, "In the Shadows" (Finck) (EA480).
 11.0: Close down.

Thursday, September 12

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, SEPTEMBER 12.

- 3.0: Presentation of items by Messrs. Lewis Eady Ltd.
 3.30: Talk—Miss Edith Sutherland, "Homecrafts."
 3.45: Further items by Messrs. Lewis Eady Ltd.
 5.0: Children's session, conducted by Peter Pan.
 6.0: Dinner Session—"His Master's Voice" Hour:
 Overture—National Symphony Orchestra, "Light Cavalry" (Suppe) (Zonophone EE102).
 Waltz—Chicago Symphony Orchestra, "Roses of the South" (Strauss) (D1452).
 'Cello—Pablo Casals, "Moment Musical" (Schubert) (DA776).
 6.13: Tacet.
 6.15: Hawaiian—Hilo Hawaiian Orchestra, (a) "Kawaihau Waltz" (Kelakai); (b) "My Hula Love" (B2799).
 Medley waltz—Troubadours, "Popular Songs of Yesterday" (EB33).
 'Cello—Pablo Casals, "Le Cygne" (Saint-Saens), (DA776).
 6.27: Tacet.
 6.30: Waltzes—International Concert Orchestra, (a) "The Merry Widow" (Lehar); (b) "Luxembourg Waltz" (Lehar) (Zonophone Record EE134).
 Violin and guitar—Giulietta Morino, (a) "Harlequin's Serenade" (Drigo); (b) "Could I?" (Poggis) (Zonophone Record EE134).
 6.44: Tacet.
 6.45: Instrumental—New Light Symphony Orchestra, (a) "The Dancing Doll" (Poldini); (b) "At Dawning" (Cadman) (B2629).
 Wurlitzer organ—Jesse Crawford, "Carolina Moon" (Davis) (EA536).
 Instrumental—Royal Opera Orchestra, "The Sleeping Beauty" (Tchaikowsky) (C1469).
 6.58: Tacet.
 7.0: Book review.
 7.15: News and market reports.
 7.45: Talk—"New Zealand Manufactures."
 8.0: Chimes.
 8.1: Popular programme—"More Scampers with the Radio Scamps."
 9.30: "His Master's Voice" Dance Programme:
 Foxtrot—Aaronson's Commanders, "My Scandinavian Gal" (Tobias) (EA460).
 Foxtrot—Shilkret's Orchestra, "My Tonia" (de Sylva) (EA478).
 Foxtrot—Hamp's Kentucky Serenaders, "What D'Ya Say" (Brown) (EA460).
 9.40: Tenor—Franklyn Baur, "Marie" (Berlin) (Zonophone Record EE135).
 Waltz—Troubadours, "Live and Love" (Klages) (EA478).
 Wurlitzer organ—Jesse Crawford, "Me and the Man in the Moon" (Lehar) (EA491).



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G.P.O. BOX 830 WELLINGTON.

- Foxtrot—Shilkret's Orchestra, "I Still Keep Dreaming of You" (Davis) (EA461).
- 9.58: Bass and chorus—Paul Robeson, "Plantation Songs" (C1585).
Hawaiian—Kolomoku's Honoluluans, "Aloha-Oe" (Liliuokalani) (Zonophone Record EE23).
- Foxtrot—Shilkret's Orchestra, "Cross Roads" (Klages) (EA461).
Hawaiian—Kolomoku's Honoluluans, "Three O'Clock in the Morning" (Robledo) (Zonophone Record EE23).
- 10.6: Tenor—Franklyn Baur, "Cross Roads" (Klages) (Zonophone Record EE135).
London Orchestra, "On With the Show" (Nicholls) (Zonophone Record 5187).
Wurlitzer organ—Reginald Foort, "Worryin'" (Fairman) (EA491).
- 10.19: Tenor—Walter Glynn, (a) "Jeunesse" (Barry); (b) "I Love the Moon" (Rubens) (B2761).
Foxtrot—Rhythm Band, "There Are Eyes" (Keyes) (EA469).
Foxtrot—Rhythm Eight, "Saskatchewan" (Gilbert) (Zonophone Record EE126).
Foxtrot—New Mayfair Orchestra, "Why is the Bacon so Tough?" (Pren-tice) (EA469).
- 1.35: Male quartet—Masters Lough and Mallett and Messrs. Dixon and Hastwell, "Drink to me Only" (Arrgd. Ball) (B277).
Saxophone duet—Rudy Wiedoeft and Arnold Brillhart, "The Swallow" (Zonophone Record EE129).
Foxtrot—Aaronson's Commanders, "I'll Get by as Long as I Have You" (Turk) (EA466).
Waltz—Troubadours, "Dolores" (Grossman) (EA477).
- 10.48: Accordion with banjo—P. Frosini, "Silver Moon" waltz (Frosini) (Zonophone Record EE129).
Foxtrot—McEnelly's Orchestra, "Sleep, Baby, Sleep" (Tucker) (EA466).
Waltz—Troubadours, "Love Dreams" (Harris) (EA475).
Foxtrot—Geo. Olsen's music, "Sonny Boy" (EA441).
- 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, SEPTEMBER 12.

- 3.0: Chimes of the G.P.O. clock.
3.1: Selected gramophone items.
4.30 and 4.50: Sports results.
5.0: Children's session conducted by Uncle George.
6.0: Dinner session—"His Master's Voice" Hour:
Royal Opera Orchestra, "Praeludium" (Jarnfeldt) (B2618).
Cello—Pablo Casals, "Melody in F" (Rubinstein) (DA833).
Waltz—Royal Opera Orchestra, "Eugénie Onegin Waltz" (Tchaikowsky) (C1281).
Balalaika Orchestra, "Shining Moon" (Russian folk song) (EA48).
- 6.12: Tacet.
6.15: Suite—Paul Whiteman's Orchestra, "Suite of Serenades" (Herbert) (EB26).
Waltz—Philadelphia Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (ED2).
- 6.27: Tacet.
6.30: Royal Opera Orchestra, "Berceuse" (Jarnfeldt) (B2618).
Cello—Pablo Casals, "Traumerei" (Schumann) (DA833).
Male quartet—Rounders, "Chlo-e" (Kahn) (EA402).
San Francisco Symphony Orchestra, (a) "Serenade" (Volkman), (b) "Flight of the Bumble Bee" (Rimsky-Korsakov) (ED9).
- 6.42: Tacet.
6.45: Chicago Symphony Orchestra, (a) "Valse Triste" (Sibelius), (b) "Funeral March of a Marionette" (Gounod) (ED5).
March—San Francisco Symphony Orchestra, "Marche Militaire" (Schubert) (ED9).
- 6.57: Tacet.
7.0: News session, market reports and sports results.
7.40: Lecturette—Mr. A. J. Nicholls (Representative Hutt Valley Horticultural Society), "Gardening."
- 8.0: Chimes of the G.P.O. clock.
Special programme in commemoration of the Battle of the Somme (1916), presented by 1st Battalion Wellington Regiment Band under the conductorship of Lieut. B. J. Shallow, and assisting artists:
8.1: March—Band, "To the Somme" (Ord Hume), (introducing "Till the Boys Come Home" and "The Long, Long Trail").
8.3: War-time choruses—Lyric Quartet, (a) "Keep the Home Fires Burning" (Novello), (b) "It's a Long Way to Tipperary" (Williams).
8.13: Selection—Band, "A Khaki Camp" (Bidgood).
(Synopsis: At daybreak the "Reveille" is sounded and the bugle is heard in various parts of the camp. The camp fully astir, the "Fall in" is heard, and in the distance can be heard the bands of the various regiments. The arrival of the "Kitchener" Brigade is greeted with shouts of welcome, after which an impromptu concert is staged, the items including two old favourites in "Sweet Genevieve" and "There is a Tavern in the Town." A V.C. hero arrives and is played into camp to the strains of "See the Conquering Hero Comes." As night falls the "Last Post" is heard and the camp is silent. At daybreak next day the camp is awakened by the "Reveille" and preparations are made for embarkation from Southampton, the departure being accompanied by cheers, choruses, and shouts of farewell.)
- 8.25: Quartet—Lyric Quartet, "The Deathless Army" (Trotene).
8.29: Humour—Mr. Will McKeon will relate some War anecdotes, true and otherwise.
8.36: Cornet solo with band accompaniment—Bandsman W. Barke, "Little Grey Home in the West" (Lohr).
Military waltz—Band, "The Grenadiers" (Rimmer).
8.47: Tenor—Mr. Charles Williams, (a) "There's a Long, Long Trail" (Elliott), (b) "A Perfect Day" (Jacobs-Bond).
8.54: March—Band, "Namur" (Richards).
8.59: Weather report.
9.4: Selection—Frank Westfield's Orchestra, "Chu Chin Chow" (Norton) (Parlophone Record A2678).
9.10: War-time choruses—Lyric Quartet, (a) "New Zealand Will Be There" (McGlowen), (b) "Pack Up Your Troubles."
9.15: Selection—Band, "A Good Time Coming" (Pether, arrgd. Ord Hume), introducing "When the Boys Come Back," "Fancy You Fancying Me," "By-and-by You Will Miss Me," "Down Where the Swanee River

Flows," "One Hour of Love with You," "Don't Blame Me," "There's a Little Lane Without a Turning," "The Laddies Who Fought and Won," "Hello, My Dearie," "Sing, Sing, Why Shouldn't We Sing?" "I Shall See You To-night," "Three Hundred and Sixty-five Days," "There's a Friend in Every Milestone," "Samoa, Samoa, Some More," "Beware of Chu Chin Chow," "Where did that one go?"

- 9.27: Baritone—Mr. Will Goudie, (a) "Phonatom Legions" (Stephens); (b) "The Company Sergeant-Major" (Sanderson).
9.34: Humour—Mr. Will McKeon, More War Anecdotes.
9.41: Xylophone solo—Victor Sterling, "The Great Little Army" (Alford) (Regal Record G20103).
9.45: March—Band, "Bravo, The Anzacs" (Richards).
Hymn—Band, "Abide with Me."
9.55: Bass solo—Mr. W. Binet Brown, "When the Sergeant-Major's on Parade" (Longstaffe).
9.59: National Anthem (special arrangement by Lieutenant J. Ord Hume, introducing a fanfare of trumpets as played by the Scots Guards on ceremonial parades).
10.2: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, SEPTEMBER 12.

- 3.0: Afternoon session—selected studio items.
4.25: Sports results to hand.
5.0: Children's session, conducted by Uncle John.
6.0: Dinner session—"Columbia" Hour:
Overture—Basle Symphony Orchestra, "Der Freischutz" (Weber) (02874-5).
6.12: Tacet.
6.15: Instrumental—J. H. Squire's Celeste Octet, (a) "The Grasshoppers' Dance" (Bucalossi); (b) "The Butterfly" (Bendix) (3608).
Musical Art Quartet—"To a Wild Rose" (McDowell) (01506).
Violin—Yvonne Curti, "Madrigale" (Simonetti) (01529).
6.27: Tacet.
6.30: Instrumental—J. H. Squire's Celeste Octet, (a) "I Love the Moon" (Rubens); (b) "Two Eyes of Grey" (McGeoch) (01213).
Instrumental—J. H. Squire's Celeste Octet, (a) "Amoureuse" Valse (Berger); (b) "Valse Bleue" (Margis) (3643).
6.42: Tacet.
6.45: Instrumental—J. H. Squire's Celeste Octet, "Valse Caprice" (Rubinstein) (02581).
Cello—W. H. Squire, "Sarabande" (Seitzer) (04283).
Instrumental—J. H. Squire's Celeste Octet, "Perpetuum Mobile" (Weber, arrgd. Crooke) (02581).
6.57: Tacet.
7.0: News session.
7.30: Lecturette, arranged by 3YA Primary Productions Committee—"Milk Fever and Other Ailments of Stock" by Mr. R. R. H. Murray, R.C.V.S. (Canterbury Agricultural College, Lincoln).
- 8.0: Chimes.
8.1: Overture—Rebroadcast of 2YA, Wellington.
8.5: Opening quartet and bass solo, followed by soprano solos—Melodious Four, Mr. T. D. Williams, Miss Frances Hamerton: (a) "The Sailor's Life" (arrgd. Lane Wilson), (b) "Was Every Nymph Like Rosamond" (Arne), (c) "Cherry Valley" (Quilter) (with instrumental accompaniment by Studio Trio).
- 8.13: Cello—Mr. Harold Beck, (a) "O, Can Ye Sew Cushions" (Scottish air, arrgd. Rowley), (b) "Hungarian Folk Tune" (traditional).
8.17: Tenor—Mr. Russell Sumner, (a) "The Plague of Love" (Arne), (b) "The Pretty Creature" (Storace).
8.21: Instrumental—J. H. Squire Celeste Octet, "Memories of Mendelssohn" (arrgd. Sear) (Columbia 02838).
8.29: Contralto—Miss Belle Renaut, (a) "The Cuckoo" (Casson), (b) "O Let Thy Tears" (Jensen).
8.33: Instrumental—Studio Trio, "Rondo—Trio in B Flat Major" (Schubert).
8.41: Bass—Mr. T. D. Williams, "The Pipes of Pan" (Elgar).
8.45: Recital—Miss Maiona Juriss, "The Vow" (Parker).
8.50: Grand organ—G. T. Patman, (a) "Kashmiri Song," (b) "Till I Wake" (Woodforde-Finden) (Columbia 02696).
8.54: Soprano and tenor duet—Dolce Duo, "Come, Silver Moon" (Londonderry Air) (arrgd. Besley).
8.58: Weather report.
9.0: Royal Philharmonic Orchestra, "A Village Romeo and Juliet—The Way to the Paradise Garden" (Delius) (Columbia 04181).
9.8: Vocal quartet followed by soprano solos—Melodious Four and Miss Frances Hamerton, (a) "Sound the Merry Tambourine" (Harper), (b) "Shepherd, Thy Demeanour Vary" (Brown), (c) "The Bee" (arrgd. Lane Wilson).
9.15: Cello—Mr. Harold Beck, "Slumber Song" (Schumann).
9.19: Tenor—Mr. Russell Sumner, (a) "Phyllis Has Such Charming Graces" (Young), (b) "My Lovely Celin" (Munro).
9.23: Contralto—Miss Belle Renaut, (a) "Ah, Willow" (arrgd. Lane Wilson), (b) "Come, Let's Be Merry" (arrgd. Lane Wilson).
9.27: Grand organ—G. T. Patman, (a) "Temple Bells," (b) "Less Than the Dust" (Woodforde-Finden) (Columbia 02696).
9.31: Instrumental—Studio Trio, (a) "Melodie—Souvenir d'un lieu cher" (Tchaikowsky), (b) "Serenade d'Houque" (Bendel).
9.39: Shakespearean recital—Miss Maiona Juriss, "Queen Katherine's Defence" ("Henry VIII").
9.44: Bass solos, followed by contralto and bass duet—Mr. T. D. Williams and Beltona Duo, (a) "Tinker's Song" (Dibdin), (b) "Beggars' Song" (Leveridge), (c) "Come to the Fair" (Easthope Martin).
9.51: Regal Orchestra, (a) "Marche," (b) "Valse des Fleurs" ("Casse Noisette") (Tchaikowsky) (Regal G20269).
9.57: Vocal quartet—Melodious Four, "The Bells of St. Michael's Tower" (Stewart).
10.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, SEPTEMBER 12.

SILENT DAY.

Friday, September 13

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, SEPTEMBER 13.

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.25 : Sports results to hand.
 5.0 : Children's session, conducted by Nod and Aunt Jean.
 6.0 : Dinner Session—"His Master's Voice" Hour:
 Overture—Berlin State Opera Orchestra, "The Magic Flute" (Mozart) (E464).
 Instrumental—Royal Opera Orchestra, "Hungarian Dance No. 5 in F Sharp Minor (Brahms) (C1415).
 Grand organ—Arthur Meale, "Simple Aveu" (Thome).
 6.18 : Tacet.
 6.15 : Suite—New Light Symphony Orchestra, "Peer Gynt Suite No. 2" (Grieg).
 1. "Ingrid's Lament"; 2. "Arabian Dance" (C1571).
 Violin—Erica Morini, "Romanza Andaluza" (Sarasate) (D1445).
 6.27 : Tacet.
 6.30 : Suite—New Light Symphony Orchestra, "Peer Gynt Suite No. 2" (Grieg):
 1. Return of Peer Gynt; 2. Solveig's Song (C1572).
 Violin—Erica Morini, "Introduction and Tarantelle" (Sarasate) (D1445).
 6.42 : Tacet.
 6.45 : Orchestral—Marek Weber's Orchestra, "Vienna by Night" (Komzak) (C1507).
 Cello—Lauri Kennedy, "Hungarian Rhapsody" (Popper) (C1595).
 6.57 : Tacet.
 7.0 : Talk—Mr. Frank Sutherland, "Rugby Football."
 7.20 : News and market reports.
 7.40 : Talk—Mr. W. G. E. Wheeler, "Esperanto."
 8.0 : Chimes.
 8.1 : Relay of concert from Messrs. Lewis Eady's Hall.
 8.30 : Bayreuth Festival Orchestra, "Siegfried—Fire Music" (Wagner) (Columbia L2015).
 8.34 : Recital—Mr. Tom Harris, "The Forsaken Merman" (Matthew Arnold).
 8.39 : Pianoforte—Miss Margot St. Lawrence Toner, "Canzone Lituana" (Chopin).
 8.44 : Lecture-Recital—Mrs. Daisy Basham and Clarion Quartet, "English National Songs of the 15th, 16th and 17th Centuries" Part 1.
 9.9 : Weather report.
 9.10 : Instrumental—Studio Trio, "Londonderry Air" (Arrgd. Kreisler).
 9.18 : Male chorus—Purdhoe Gleemen, "Soldier's Farewell" (Kinkel) (Regal Record G20429).
 9.21 : Violin—Miss Ina Bosworth, "Sonata in A" (Schott).
 9.25 : Recitals—Mr. T. Harris, (a) "Old Aunt Mary's" (Riley); (b) "The Old Bachelor."
 9.31 : Pianoforte—Miss M. Toner, (a) "Prelude 2" (Besley); (b) "Prelude 4" (Besley).
 9.37 : Lecture-Recital—Mrs. D. Basham and Clarion Quartet, "English National Songs" Part 2.
 10.2 : Instrumental—Studio Trio, "Trio Op. 100—Scherzo" (Schubert).
 10.10 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, SEPTEMBER 13.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 4.30 and 4.50 : Sports results to hand.
 5.0 : Children's session, conducted by Big Brother Jack.
 6.0 : Dinner session—"Parlophone Hour":
 Overture—Berlin State Opera Orchestra, "Mignon" (Thomas) (E10557).
 Grand Symphony Orchestra, "Tales of Hoffman—Barcarolle" (Offenbach) (A4061).
 6.12 : Tacet.
 6.15 : Fantasia—Edith Lorand Orchestra, "Faust" (Gounod) (E10579).
 Pianoforte—Karol Szreter, "Fledermaus" (Strauss) (A4082).
 6.27 : Tacet.
 6.30 : Selection—Dajos Bela Orchestra, "La Tosca" (Verdi) (A4045).
 Violoncello—Orabio de Castro, "Nocturne in F Flat" (Chopin) (E10581).
 6.42 : Tacet.
 6.45 : Overture—Grand Symphony Orchestra, "Fra Diavolo" (Auber) (A4022).
 Grand Symphony Orchestra, "Tales of Hoffman—Entracte and Minuet" (Offenbach) (A4061).
 6.57 : Tacet.
 7.0 : News session—market reports and sports results.
 7.40 : Lecturette—Professor D. M. Y. Sommerville (Victoria College) (under the auspices of the W.E.A.), "Are the Planets Habitable?"
 8.0 : Chimes of the G.P.O. Clock.
 Special programme of vocal excerpts from "The Rebel Maid" (Montague Phillips) presented by the Philharmonic Quartet:
 8.1 : Overture—Orchestra, "Rebel Maid" Selection (Phillips).
 8.9 : Soprano—Miss Ena Rapley, "Sail, My Ships" (Phillips).
 8.13 : Bass—Mr. Arthur Brady, "The Fishermen of England" (Phillips).
 8.17 : Pianoforte—Miss Pauline Rogers, (a) "Prelude in C Sharp Minor" (Rachmaninoff); (b) "Melodie Op. 68, No. 3" (Paderewski).
 8.24 : Contralto—Miss Madge Freeman, "I Want My Man" (Phillips).
 8.28 : Vocal duet—Messrs. Edwin Dennis and Arthur Brady, "Ho, Ho, Diddle Dum" (Phillips).
 8.32 : Instrumental—Orchestra, "My Lady Frayle" (Finck).
 8.40 : Recital—Mrs. Geo. Castle, "The Trooper's Defence" (Anon).
 8.46 : Vocal duet—Misses Ena Rapley and Madge Freeman, "Serving Maids" (Phillips).
 8.50 : Tenor—Mr. Edwin Dennis, "Onaway, Awake Beloved" ("Hiawatha") (Coleridge-Taylor).
 8.54 : Selection—Orchestra, "Bohemian Girl" (Balfe-Finck).
 9.2 : Weather report.
 9.4 : Soprano—Miss Ena Rapley, "Are My Lanterns Shining Brightly?" (Phillips).
 9.8 : Quartet—Philharmonic, "Shepherdess and Beau Brocade" (Phillips).
 9.12 : Instrumental—Orchestra, "Faust—Incidental Music" (Coleridge-Taylor).
 9.20 : Baritone—Mr. Arthur Brady, "The Yeomen of England" ("Merrie England") (German).

- 9.24 : Selection—H.M. Grenadier Guards' Band, "New Sullivan Selection" (Sullivan, arrgd. Godfrey) (Columbia 02781).
 9.32 : Recitals—Mrs. Geo. Castle, (a) "In the Crowd" (Wilcox); (b) "The Last Thing at Night" (Anon).
 9.39 : Contralto—Miss Madge Freeman, "So this is Woman's Lot" ("Carmen") (Bizet).
 9.43 : Mandolin Band—Circle Mandolinistico, (a) "Serenade" ("Les Millions d'Arlequin" (Drigo); (b) "Carmen Intermezzo" (Bizet) (Columbia 0989).
 9.49 : Tenor—Mr. Edwin Dennis, "O Vision Entrancing" ("Esmeralda") (Goring Thomas).
 9.53 : Dance suite—Orchestra, "Three Dale Dances" (Wood).
 10.1 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, SEPTEMBER 13.

- 3.0 : Afternoon session—selected studio items.
 4.25 : Sports results to hand.
 4.30 : Close down.
 5.0 : Children's session, conducted by "Storyman."
 6.0 : Dinner session—"Parlophone Hour":
 Overture—Grand Symphony Orchestra, "Zampa" (Herold) (A4020).
 Waltz—Dajos Bela Orchestra, "Morganblatter" (Strauss) (A4038).
 6.12 : Tacet.
 6.15 : Orchestra of the Opera Comique de Paris, "Scenes Pittoresques" (Massenet) (A4057).
 Waltz—Edith Lorand Orchestra "Vienna Waltz" (Drdla) (E10531).
 6.27 : Tacet.
 6.30 : Waltz—Dajos Bela Orchestra, "Marien Klange" (Strauss) (A4038).
 Instrumental—Dajos Bela Orchestra, "Ideale" (Tosti) (A4015).
 Waltz—Edith Dorand Orchestra, "Merry Vienna" (Zishrer) (E10531).
 6.42 : Tacet.
 6.45 : Waltz—Edith Lorand Orchestra, "Song of Autumn" (Waldteufel) (E10570).
 March—Queenie and David Kaili, "Hawaiian March" (Ellis) (A2372).
 Valse intermezzo—Edith Lorand Orchestra, "The Flowers' Dream" (Translatour) (E10570).
 Selection—H.M. Irish Guards Band, "Desert Song" (Romberg) (A2433).
 6.57 : Tacet.
 7.0 : News session.
 8.0 : Chimes.
 8.1 : Overture—Rebroadcast of 2YA, Wellington.
 8.9 : Baritone—Mr. Jack Smythe, "I've Turned Devonshire Down" (Sterndale Bennett).
 8.13 : Paul Whiteman's Orchestra, "Suite of Serenades" (Herbert) 1. Spanish; 2. Chinese; 3. Cuban; 4. Oriental (H.M.V. Record EB26).
 8.21 : Songs at piano with banjolele—Rose and Thistle Duo, (a) "When the Sun Goes Down Again" (Robison); (b) "Ten Little Miles from Town" (Kahn).
 8.28 : Dance music—Bailey-Marston Dance Orchestra, "Russian Russe" (Nausbaum).
 8.33 : Scottish song—Mr. Bracey Wilson, "When I Get Back to Bonnie Scotland" (Lauder).
 8.38 : Male choir—Russian State Choir, "Storm on the Volga" (Pastchenko) (H.M.V. Record C1498).
 8.46 : Mezzo-soprano—Miss Alma Finnerty, "A Little Bit of Heaven" (Ball).
 8.52 : Dance music—Bailey-Marston Dance Orchestra: (a) "Da, Da" (Carlton); (b) "Glad Rag Doll" (Ager).
 9.0 : Weather report.
 9.2 : Baritone—Mr. Jack Smythe, (a) "The Old Sundowner" (Les Coney); (b) "When You and I Were Seventeen" (Rosoff).
 9.9 : Paul Whiteman's Orchestra, (a) "Show Boat" (Kern); (b) "Ol' Man River" (Kern) (H.M.V. Record C1505).
 9.17 : Songs at piano with banjolele, Rose and Thistle Duo, (a) "My Blue Ridge Mountain Home" (Robison); (b) "It was Only a Sunshower" (Kahal).
 9.24 : Dance music—Bailey-Marston Dance Orchestra, (a) "Sally of my Dreams" (Kernell); (b) "You Were Meant For Me" (Brown).
 9.32 : Scottish song—Mr. Bracey Wilson, "Roamin' in the Gloaming" (Lauder).
 9.37 : Violin and kinema organ—Chas. Williams, (a) "Melody in F" (Rubinstein); (b) "Somewhere a Voice is Calling" (Tate) (Zonophone Record 5194).
 9.43 : Mezzo-soprano—Miss Alma Finnerty, (a) "That's a Good Girl" (Berlin); (b) "Say It While Dancing" (Silver).
 Programme of dance music contributed by the Bailey-Marston Dance Orchestra:
 "Fascinating Vamp" (Nausbaum).
 "I Kiss Your Hand, Madame" (Erwin).
 "I Must Have That Man" (Fields).
 "Broadway Melody" (Brown).
 "Chopinata" (Doucet).
 "Oh Top of the World Alone" (Robin).
 "Makin' Whoopee" (Donaldson).
 "I'm Bringing a Red Red Rose" (Donaldson).
 "I'm Sorry, Sally" (Kahn).
 "Deep Hollow" (Guy).
 "Sunrise to Sunset" (Miller).
 "Deep Night" (Henderson).
 "Ten Little Miles from Town" (Kahn).
 "Sweethearts on Parade" (Lombardo).
 "Sunny Skies" (Gilbert).
 "If I Had You" (Robins).
 11.0 : Close down.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, SEPTEMBER 13.

- 3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 3.15 : Lecturette on "Fashions" by Miss Buecleuch of D.S.A., Ltd.
 4.25 : Sports results to hand.
 6.0 : Children's session conducted by Aunt Sheila and Big Brother Bill.
 7.0 : News session.
 8.0 : Town Hall chimes.
 8.1 : Overture—National Symphony Orchestra, "Norma" (Bellini) (Zonophone EE121).

- 8.9 : Contralto—Miss Irene Horniblow, "Mignon" (Tomes).
 8.12 : Instrumental—4YA Broadcasting Trio, "Serenade" (Schubert-Liszt).
 8.21 : Soprano—Miss Rae Stubbs, "Love Triumphant" (Brahms).
 8.25 : Violin—Mr. Frank Parsons—"Sonata" (Handel).
 8.31 : Bass-baritone—Mr. G. M. Salmoud, "The Border Ballad" (Cowan).
 8.35 : Pianoforte—Mrs. Ernest Drake, "Fantasia in D Minor" (Mozart).
 8.41 : Recital—Mr. C. Russell Smith, "Christmas at Sea" (Anon).
 8.51 : Tenor—Mr. J. Montague, "Arise, O Sun" (Day).
 8.56 : National Symphony Orchestra, "La Traviata—Prelude" (Verdi) (H.M.V. Record EB24).
 9.0 : Weather report.
 9.3 : Contralto—Miss Irene Horniblow, (a) "By the Sea" (Schubert); (b) "The Morning Greeting" (Schubert).
 9.10 : Instrumental—4YA Broadcasting Trio, (a) "Souvenir" (Drdla); (b) "Vienna Life" (Strauss).
 9.20 : Soprano—Miss Rae Stubbs, (a) "Love, the Jester" (McGough); (b) "The Weeping Willow" (Phillips).
 9.25 : Organ—Reginald Foort, "Schon Rosmarin" (Kreisler) (H.M.V. Record B2664).
 9.29 : Bass-baritone—Mr. G. M. Salmoud, (a) "Hear Me, Ye Winds and Waves" (Handel); (b) "Bois d'Espais" (Lully).
 9.34 : Cello—Mr. P. J. Palmer, "Minuetto" (Becker).
 9.40 : Recitals—Mr. C. Russell Smith, (a) "The Quitter" (Service); (b) "The Lady from the West" (Russell).
 9.50 : Tenor—Mr. J. Montague, (a) "I Pitch My Lonely Caravan" (Cook); (b) "Mother o' Mine" (Laurs).
 9.56 : National Symphony Orchestra, "Sylvia Ballet—Cortège de Bacchus" (Delibes) (H.M.V. EB24).
 10.0 : Close down.

Saturday, September 14

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, SEPTEMBER 14.

- 2.50 : Relay description of Rugby football match from Eden Park: Auckland v. Wellington.
 4.30 : (approx.) Close down.
 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner session—"Parlophone Hour":
 Fantasia—Edith Lorand Orchestra, "Johann Strauss" (Strauss) (A4044).
 Piano and orchestra, Raie da Costa, "When Day is Done" (De Sylva) (A4041).
 6.12 : Tacet.
 6.15 : Hawaiian—David Kaili, "Honolulu March" ((A2464).
 Kinema organ—Leslie Harvey, "Where the Shy Little Violets Grow" (Warren) (A2695).
 Waltz—Dajos Bela Orchestra, "The Grenadiers" (Waldeufel) (A4081).
 Saxophone solo—Arnold Brilhart, "Fascination" (Bernie) (A2676).
 6.28 : Tacet.
 6.30 : Waltz—Dajos Bela Orchestra, "Polish Life" (Nedbal) (A4008).
 Piano and orchestra—Raie da Costa, "Sweetheart, I'm Dreaming of You" (Carter) (A4041).
 Instrumental—Dajos Bela Orchestra, "Dancing Demoiselle" (Fall) (A4008).
 6.42 : Tacet.
 6.45 : Selection—Edith Lorand Orchestra, "Dollar Princess" (Fall) (E10512).
 Waltz—Dajos Bela Orchestra, "Casino Tanze" (Gungi) (A4081).
 6.57 : Tacet.
 7.0 : News and market reports.
 7.40 : Talk—Mr. G. D. Rutter, "The Flower Garden."
 8.0 : Chimes.
 8.1 : Overture—Studio Orchestra, "Irish Patrol" (Puerner).
 8.10 : Vocal novelty—Bohemian Duo, (a) "Old Pal" (Nelson); (b) "A Precious Little Thing Called Love" (McHugh).
 8.18 : Kinema organ—Chas. W. Saxby, "Classica" (Potpourri) (arrgd. Ewing) (Zonophone Record A334).
 8.26 : Tenor—Mr. Geo. Barnes, "Mother, My Dear" (Treharne).
 8.30 : Instrumental—Studio Orchestra, "Ballet Music from Meyerbeer's Operas" (arrgd. Kretschmer).
 8.40 : Bass with chorus—Paul Robeson, "Plantation Songs" (H.M.V. Record C1585).
 8.48 : Vocal novelty—Bohemian Duo, (a) "Sally of My Dreams" (Kernell); (b) "All by Yourself in the Moonlight" (Wallis).
 8.56 : Pianoforte duet—Victor Areen and Phil Ohman, "Fashionette" (H.M.V. Record EA529).
 9.0 : Weather report.
 9.2 : Instrumental—Studio Orchestra, "Pastoral Sketches" (Mayerl): (1) Legend; (2) Lovers' Lane; (3) A Village Festival.
 9.12 : Tenor—Mr. Geo. Barnes, (a) "Sometimes in Summer" (Sterndale-Bennett); (b) "Down the Vale" (Moir).
 9.19 : Accordion solo—Scotta, "La Petite Tonkinoise" (Peitro) (Zonophone Record EB157).
 9.23 : Novelty sketch—The Four Originals, "Smiles."
 9.53 : Instrumental—Studio Orchestra, "Dorothy" Selection (Cellier, arrgd. Pougher).
 10.2 : "Brunswick" Dance Programme:
 Waltz—Regent Club Orchestra, "Marie" (Berlin) (4257).
 Foxtrot—Hotel Roosevelt Orchestra, "I Kiss Your Hand, Madame" (Lewis) (4315).
 Waltz—Regent Club Orchestra, "Where is the Song of Songs for Me?" (Berlin) (4257).
 Foxtrot—Hotel Roosevelt Orchestra, "I've Got a Feeling I'm Falling" (Rose) (4315).
 10.13 : Baritone—John Charles Thomas, "Rolling Down to Rio" (Kipling-German) (15200).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "Stairway of Dreams" (Stone) (4277).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "That's the Good Old Sunny South" (Ager) (4277).
 Foxtrot—Hotel Roosevelt Orchestra, "I'll Tell the World" (Turk) (4253).
 Waltz—Hotel Roosevelt Orchestra, "Sweet Suzanne" (Leslie) (4253).

- 10.29 : Vocal solo—Bob Nolan, "Rose of Mandalay" (Magine) (4248).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Do You Ever Think of Me?" (Burnett) (4217).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Ploddin' Along" (Cammando) (4217).
 Foxtrots—Colonial Club Orchestra, (a) "Naughty Eyes" (Fork); (b) "Leave Me with a Beautiful Melody" (Spier) (4256).
 10.43 : Vocal solo—Bob Nolan, "Caressing You" (Faziolo) (4248).
 Foxtrots—Hotel Roosevelt Orchestra, (a) "Mean to Me" (Turk); (b) "My Castle in Spain is a Shack in the Lane" (Caesar) (4274).
 Foxtrots—The Clevelanders, (a) "Shout Hallelujah, 'Cause I'm Home" (Dixon); (b) "There's a Place in the Sun for You" (Green) (4255).
 11.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, SEPTEMBER 14.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Relay description of football match from Athletic Park.
 5.0 : Children's session, conducted by Uncle Toby and Aunt Gwen.
 6.0 : Dinner session—"Columbia Hour":
 Band de la Garde Republicaine de France, "Le Bombardier" (Pares) (01504).
 Cello—W. H. Squire, "The Broken Melody" (Van Biene) (04180).
 Albert Sandlers' Orchestra, "I Kiss Your Hand, Madame" (Erwin) (01467).
 Cinema organ—G. T. Pattman, "Cherie" Waltz (Valentine) (01344).
 6.12 : Tacet.
 6.15 : Court Symphony Orchestra, "The Gondoliers" (Sullivan) (979).
 Paul Whiteman's Orchestra, "Gypsy" (Gilbert) (07505).
 6.27 : Tacet.
 6.30 : Albert Sandlers' Orchestra, "Chalita" (Schertzinger) (01467).
 Marimbas—Padilla's Marimba Serenaders, "Paree" (Padilla) (Regal record G20344).
 Piano—Gil Dech, "Sometimes I'm Happy" (Youmans) (01205).
 Royal Serbian Tambouritzza Orchestra, "Serbian Melody" (01490).
 6.42 : Tacet.
 6.45 : Intermezzo—Ketelbey's Orchestra, "Bells Across the Meadows" (Ketelbey) (02695).
 Marimbas—Rio Marimba Orchestra, "Dolores" Waltz (Waldeufel) (Regal record G20344).
 Cinema organ—G. T. Pattman, "Worryin'" Waltz (Fairman) (01344).
 March—Bande de Garde Republicaine de France, "Marche Indienne" (Selleniek) (01504).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, (a) "Colonel Bogey" March (Alford); (b) "Valse Bleue" (Margis).
 8.9 : Quartet—Melodie Four, "Soldiers' Chorus" ("Faust"—Gounod).
 8.13 : Steel guitar duo—Messrs. Berthold and Bent, (a) "When Love Comes Stealing" (Rapee); (b) "Kawaihau" (Kealakai).
 8.20 : Tenor—Mr. F. Bryant, "Hinton-Dinton and Mere" (Holloway).
 8.24 : Siffleur—Mr. Ted Feeney, "That Saxophone Waltz" (Sisk).
 8.28 : Instrumental—Orchestra, "Musical Jigsaw" (Aston).
 8.36 : Humorous sketch—Messrs. Victor S. Lloyd and E. A. Clark and Miss Elsie Lloyd, "The House Agent".
 8.44 : Baritone—Mr. R. S. Allwright, "My Lady's Bower" (Temple).
 8.48 : Quartet—Melodie Four, "Tom, Tom, the Piper's Son" (Kendall).
 8.52 : Instrumental—Orchestra request number.
 9.0 : Weather report.
 9.2 : Tenor solo—Mr. Sam Duncan, "Absent" (Metcalf).
 9.6 : Steel guitar duo—Messrs. Berthold and Bent, (a) "Hilo March" (traditional); (b) "All Alone" (Berlin).
 9.13 : Bass—Mr. W. W. Marshall, "A Thousand Leagues Under the Sea" (Petrie).
 9.17 : Instrumental—Orchestra, "Beauty Prize" Selection (Kern).
 9.25 : Humour—Miss Elsie Lloyd, "Mrs. 'Arris" (Poulteney).
 9.32 : Xylo-rimba Orchestra, (a) "Along Miami Shore" (Warren); (b) "My Sweetheart" (Nelson) (Regal Record G20328).
 9.38 : Siffleur—Mr. Ted Feeney, selected.
 9.45 : Quartet—Melodie Four, "Riding on a Dream Train" (Lewis).
 9.49 : Instrumental—Orchestra, Dance Novelties.
 10.0 : "Brunswick" Dance Programme:
 Novelty foxtrot—Jesse Stafford's Orchestra, "Kewpie" (Rose) (4249).
 Foxtrot—Jesse Stafford's Orchestra, "A Precious Little Thing Called Love" (Davis) (4249).
 Foxtrot—Red Nicholls and his Five Pennies, "Roses of Picardy" (Wood) (4286).
 Waltz—Pianoforte solo, Rosita Renard, "Blue Danube" (Strauss) (4240).
 10.16 : Vocal duet—Francis Luther and Jack Parker, "Carolina Moon" (Davis) (4203).
 Foxtrot—Red Nicholls and his Five Pennies, "Allah's Holiday" (Friml) (5286).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "I'm Telling You" (Rose) (4190).
 Foxtrot—Jungle Band, "Paducah" (Redman) (4309).
 10.28 : Soprano—Marie Tiffany, "Little Grey Home in the West" (Wilmot) (15197).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "I Found You Out When I Found You In" (Ponce) (4190).
 Foxtrot—Royal Creolians, "Third Rail" (De Marsi) (7072).
 Vocal duet—Francis Luther and Carson Robison, "You Can't Take My Memories from Me" (Davis) (4202).
 10.41 : Organ solo—Lew White, "Coquette" (Berlin) (4301).
 Foxtrot—Ray Miller's Orchestra, "No One in the World But You" (Robison) (4194).
 Waltz—Regent Club Orchestra, "Poor Punchinello" (Lewis) (4206).
 10.50 : Soprano—Marie Tiffany, "Pale Moon" (Logan) (15197).
 Foxtrot—Brunswick Orchestra, "Redskin" (4218).
 Waltz—Regent Club Orchestra, "Loneliness" (Pollack).
 11.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—SATURDAY, SEPTEMBER 14.

- 2.45: Running description of football match, relayed from Lancaster Park.
 5.0: Children's session, conducted by Aunt Pat and Brother Bill.
 6.0: Dinner session—"Columbia" Hour:
 Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder" (Lauder) (02750).
 Waltz—Symphony Orchestra, "Doctinen" (Strauss) (02529).
 6.12: Tacet.
 6.15: Piano—Gil Dech, "Wedding of the Painted Doll" (Freed) (01549).
 Piano—Constance Mering, "So Dear," (Caesar) (01224).
 Waltz medley—Eddie Thomas' Collegians, (02904).
 Saxophone—Rudy Wiedoeft, "Minuet" (Beethoven) (01176).
 6.28: Tacet.
 6.30: Mandolin band—Circle Mandolinistico, "La Traviata-Prelude" (Verdi) (02566).
 Waltz—Symphony Orchestra, "When the Lemons Bloom" (Strauss) (02529).
 6.42: Tacet.
 6.45: Musical Art Quartet—"Mighty Lak' a Rose" (Nevin) (01606).
 Saxophone—Rudy Wiedoeft, "Valse Mazanetta" (Wiedoeft) (01176).
 Pianoforte—Gil Dech, "I Kiss Your Hand, Madame" (Erwin) (01549).
 Instrumental—Eddie Thomas' Collegians, "Beautiful Ohio" (Earl) (02904).
 6.57: Tacet.
 7.0: News session.
 7.30: Sports results to hand.
 8.0: Chimes.
 Programme of old-time songs, recitations and dances.
 8.1: Overture—The Troubadours, "Popular Songs of Yesterday" (H.M.V. Record EB33).
 8.9: Baritone—Mr. Bernard Rennell, (a) "Yeoman's Wedding Song" (Poniatowski); (b) "Kathleen Mavourneen" (Crouch).
 8.16: English concertina duets—Messrs. Theo and Francis Gunther, (a) "Sweet Chiming Bells" (Shattuck); (b) "Old Folks at Home" (Foster).
 8.21: Contralto—Mrs. D. W. Stallard, (a) "Silver Threads Among the Gold" (Danks); (b) "My Old Kentucky Home" (Foster).
 8.29: Recital—Mr. Hiram Dunford—"Betsy and I Are Out—The Quarrel" ("Farm Ballads") (Carlton).
 8.34: Waltz—Edith Lorand Orchestra, "Mysotis" (Waldteufel) (Parlophone Record E10513).
 8.42: Tenor—Mr. L. C. Quane, (a) "Alice, Where Art Thou" (Ascher); (b) "Mary of Argyle" (Nelson).
 8.49: Scottish humour—Mr. Jock Lockhart, old-time memories of song and story, introducing "Mrs. Henry 'Awkins" (Lockhart) and "I Love a Lassie" (Lauder).
 8.56: Harmonica, banjo and guitar—Eddie Jordan's Old-Fashioned Boys, "Yip-I-Addy-I-Ay" (Brunswick Record 4387).
 8.59: Weather report.
 9.1: Baritone—Mr. Bernard Rennell and chorus, "In the Shade of the Old Apple Tree" (Val Alstyne).
 9.8: Concertina duet—Messrs. Theo and Frances Gunther, "Rendezvous" (Aletter).
 9.12: Contralto and chorus—Mrs. D. W. Stallard, "The Old Rustic Bridge by the Mill" (Kelley).
 9.16: Chorus—Sheffield Orpheus Male Voice Choir, "There is a Tavern in the Town" (Columbia Record 01175).
 9.19: Waltz—Williams' Orchestra, "Merry Widow" (Lehar).
 9.24: Tenor—Mr. L. C. Quane, "Sally in Our Alley" (Carey).
 9.28: Schottische—Williams' Dance Orchestra, "Whistling Jim" (Lindsay).
 9.33: Recital—Mr. Hiram Dunford, "How Betsy and I Made Up—The Reconciliation" ("Farm Ballads") (Carlton).
 9.38: Lancers—Williams' Dance Orchestra, "Deoch and Doris" (Baynes).
 9.53: Scottish song and story—Mr. Jock Lockhart, more old-time memories in song and story, including "We Parted on the Shore" (arrgd. Lockhart).
 The Williams' Dance Orchestra will continue until 11 p.m. in old-time dances and square-sets as danced in the 19th century:
 Mazurka—"Birds of Love" (Ascher).
 Fascination Polka—"Bicycle" (Antebas).
 Quadrilles—"Harry Lauder's Songs" (Arrgd. Kaps).
 Barn Dance—"I Would Still Love You" (Murphy).
 Highland Schottische—"Inverness" (Mackie).
 Alberts—"Our Miss Gibbs" (Higgs).
 Military two-step—"Lights Out" (McCoy).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SATURDAY, SEPTEMBER 14.

- 3.0: Town Hall chimes.
 3.1: Selected gramophone items.
 6.0: Children's session, conducted by Uncle George.
 7.0: News session.
 8.0: Relay of 3YA, Christchurch:
 10.0: "His Master's Voice" Dance Programme:
 Foxtrot—Rhythmic Eight, "Don't Be Like That" (Gottler (Zonophone EE154).
 Foxtrot—Jack Hylton's Orchestra, "Sweetheart of All My Dreams" (Fitch) (EA540).
 Foxtrot—Arcadians' Dance Orchestra, "Pokee-Okee-Oh" (Butler) (Zonophone EE155).
 Foxtrot—Jack Hylton's Orchestra, "I Lift Up My Finger and Say Tweet, Tweet" (Savony) (EA540).
 10.12: Wurlitzer organ—Jesse Crawford, "A Precious Little Thing Called Love" (Davis) (EA536).
 Foxtrot—Geo. Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn) (EA587).
 Foxtrot—Nat Shilkret's Orchestra, "One for All, All for One" (Trent) (EA528).
 Foxtrot—Horace Heidt's Orchestra, "I'm Ka-razy For You" (Jolson) (EA589).
 Waltz—Arcadians' Dance Orchestra, "Anita" (Pollack) (Zonophone EE154).

Waltz—Arcadians' Dance Orchestra, "That Old Time Organ Melody" (Carlton) (Zonophone EE155).

- 10.30: Contralto solo—Lupe Valez, "Mi Amado" (My Beloved) (Lewis) (EA535).
 Foxtrot—Geo. Olsen's Music, "Come West, Little Girl, Come West" (Kahn) (EA537).
 Foxtrot—Nat Shilkret's Orchestra, "I'm Thirsty for Kisses, Hungry for Love" (Davis) (EA523).
 Foxtrot—Nat Shilkret's Orchestra, "Some Sweet Day" (Shilkret) (EA531).
 Foxtrot—Waring's Pennsylvanians, "My Mother's Eyes" (Gilbert) (EA530).
 10.45: Wurlitzer organ—Jesse Crawford, "Carolina Moon" (Davis) (EA536).
 Foxtrot—Kassels in the Air, "He, She, and Me" (Newman) (EA582).
 Foxtrot—Parl Central Orchestra, "Sally of My Dreams" (Kernell) (EA530).
 Waltz—Connecticut Yankees, "Coquette" (Berlin) (EA532).
 Waltz—Nat Shilkret's Orchestra, "Lady Divine" (Shilkret) (EA531).
 11.0: Close down.

Sunday, September 15**1YA, AUCKLAND (900 KILOCYCLES).—SUNDAY, SEPTEMBER 15.**

- 3.0: Afternoon session—selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.30: Close down.

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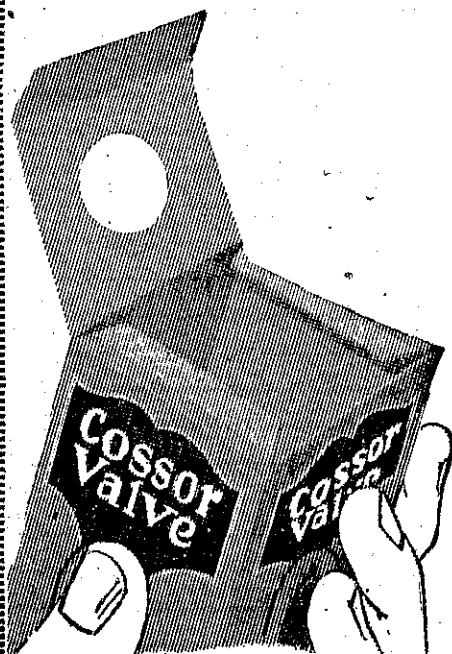
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6.0 : Children's session, conducted by Uncle Leo.
 6.55 : Relay of service from Church of Christ, Preacher: Pastor Campbell.
 8.30 : (approx.)—Studio concert:
 Budapest Philharmonic Orchestra, "Hungarian Rhapsody, No. 1 in F" (Liszt) (Columbia 02728).
 Soprano—Miss Reya McCullay, (a) "Believe Me If All Those Endearing Young Charms" (Moore); (b) "Off in the Stilly Night" (trdtd).
 Baritone solo—Mr. Clinton Williams, "Like as the Hart Desireth" (Allitsen).
 Viola—Lionel Tertis, "Minnelied" (Brahms) (Columbia 03631).
 Contralto solos—Miss Nellie Lingard, (a) "The King of Love My Shepherd Is" (Gounod); (b) "To the Angels" (Zardo).
 Band of the Garde Republicaine de France, "Carmen" Entr'acte (Bizet) (Columbia 02747).
 Soprano—Miss R. McCullay, "By the Waters of Galilee" (Lindsay).
 Vocal quartet—Irish Male Quartet, "Faith of Our Fathers" (Regal G20481).
 Organ—Quentine MacLean, (a) "Prelude"; (b) "Doge's March" ("Merchant of Venice" Suite) (Rosse) (Columbia 02797).
 Baritone—Mr. Clifton Williams, (a) "There Is a Green Hill Far Away" (Gounod); (b) "When I Survey the Wondrous Cross" (Pettman).
 Contralto—Miss Lingard, "Verdi Prati" ("Alicia") (Handel).
 Band of the Royal Air Force, (a) "Our Director" March (Bigelow); (b) "Repasz Band March" (Sweeley) (Columbia 01354).
 8.40 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, SEPTEMBER 15.

3.0 : Afternoon session—Selected studio items.
 4.30 : Close down.
 6.0 : Children's Sunday service, conducted by Uncle George.
 7.0 : Relay of service from Vivian Street Church of Christ. Preacher, Pastor W. G. Carpenter. Organist, Mrs. L. Sincock. Choirmaster, Mr. W. J. Mason.
 8.15 : (approx.) Relay from Grand Opera House of recital by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew.
 Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, SEPTEMBER 15.

3.0 : Afternoon session—Selected studio items.
 5.30 : Children's song service.
 6.15 : Hymn chimes from Studio.
 6.30 : Studio Programme:
 Royal Albert Hall Orchestra, "Song of Night" (Elgar) (H.M.V. D1236).
 6.34 : Tenor—Mr. C. R. Williamson, "Love's Garden of Roses" (Haydn Wood).
 6.38 : Contralto—Miss Marian Woodhouse, (a) "Life" (Austin); (b) "Oh, for a Burst of Song" (Allitsen).
 6.44 : Royal Albert Hall Orchestra, "Song of Morning" (Elgar) (H.M.V. D1236).
 6.48 : Tenor—Mr. C. R. Williamson, (a) "Bird Songs at Eventide" (Coates); (b) "I Heard You Singing" (Coates).
 6.54 : Contralto—Miss Marian Woodhouse, (a) "Bright is the Ring of Words" (Carey); (b) "The Lord is My Light" (Allitsen).
 7.0 : Relay of service from Holy Trinity Church, Avonside: Preacher, Rev. H. W. Smith (Hospital Chaplain). Organist and Musical Director, Mr. Arthur Lilley, A.R.C.O.
 8.15 : (approx.) Rebroadcast of 2YA, Wellington (Relay from Grand Opera House, Wellington, of recital by the Port Nicholson Silver Band under the conductorship of Mr. J. J. Drew).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, SEPTEMBER 15.

3.0 : Town Hall chimes.
 3.1 : Selected gramophone items.
 4.30 : Close down.
 5.30 : Children's song service, conducted by Big Brother Bill.
 6.30 : Relay of service from Hanover Street Baptist Church. Preacher: Rev. E. S. Tuckwell, B.A. Organist: Mr. Upton Harvey. Choirmaster: Mr. H. P. Desmoulin.
 8.5 : (approx.)—Relay from His Majesty's Theatre of concert by the Dunedin Tramways Band, under the conductorship of Mr. C. Morgan.
 9.15 : Close down.

Children's Sessions

(Continued from page 15.)

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Our Mailbag

Philbin (Otago): Your request has been forwarded to the R.B.C.

Racing Ban.

I ACCORD my hearty support to Gordon C. Moses re the racing ban. In my opinion, also, the Broadcasting Co. would have the support of the general public if they again broadcast running descriptions, and this can certainly be done on most of the metropolitan courses. I venture to say that if the Gaming Bill comes into being, and money is able to be telegraphed to the course, the Racing and Trotting Conference will be only too glad to agree to the broadcast.—W. J. McArthur (Opawa).

Children's Sessions.

WE enjoy "Uncle Tom" from 1YA very much. He has certainly the art of becoming a child when speaking to the children, and this gives him such a power over all his young listeners.—Interested (Westport).

Too Much Rebroadcasting.

UNLESS the programmes improve and less rebroadcasting done before next April I do not intend taking out another license. It was recently stated that it was the aim of the Broadcasting Company to give listeners the choice of four good concerts. Since then we have had more rebroadcasting of 2YA and introduced relaying of 3YA by 4YA, and 2YA fades and distorts. Most of us who have had sets before the Broadcasting Company came into being now look for quality first, and would welcome three nights a week of good quality programmes rather than five of the class we are having at present. The children's session is the most enjoyable put over, and next to that is the relay work. Timaru and Temuka concerts were very fine performances.—P. C. Olliver, Richmond.

Outside Performances.

WE cannot speak too highly of radio. We have just the "humble crystal," but find Wellington quite satisfies us, especially as the broadcasts on relay which are "put over" give us the pleasure of hearing outside performances sometimes, the latest of these being the delightful programme from Hastings on Thursday night.—H. C. Good (Wellington).

Wonderfully Improved.

I MUST congratulate the R.B.C. for the improvement to the programmes. The transmissions from 2YA have improved wonderfully late-

Australian Relay Stations

First at Newcastle

THE broadcasting authorities of Australia recently made an announcement to the effect that the first Australian relay station was to be established at Newcastle, and that three-quarters of a million are to be spent in this direction within the next three years. Newcastle has been selected because of many factors; the district contains the greatest aggregation of population outside the metropolis, and the listeners of Newcastle have been complaining of the fading which they suffer as well as local electrical interference.

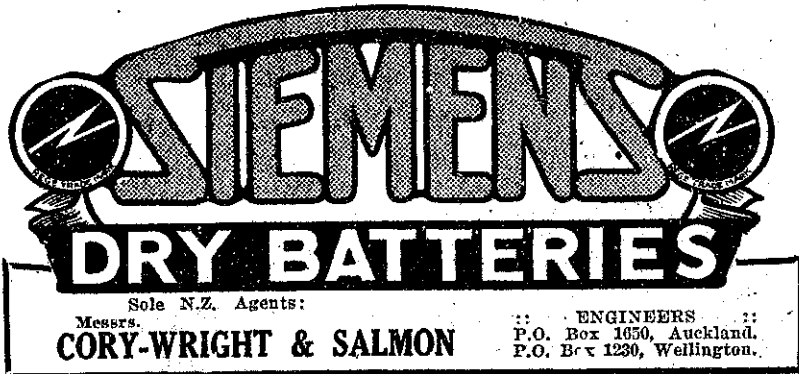
The station will be even greater in power than stations 2FC or 3LO. It is stated that 100 per cent. modulation will be preferred, and thus good crystal reception will be given up to 25 or 30 miles. Thus reception will now be available to many who cannot afford expensive sets.

Competitions Broadcast

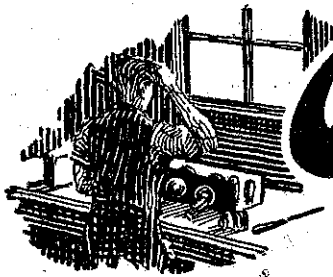
A SUCCESSFUL innovation was tried out by 2YA when the official opening of the annual festival of the Wellington Competitions Society was broadcast for the first time. The sections for the children were greatly appreciated by adult listeners, and one tiny tot, only 3 years of age, won a place in her class.

The broadcast was a boon to many listeners out of Wellington who had a personal interest in the competitors appearing that night. The evening was a change from the usual programme, and no doubt the competitions will be on the air again. The experiment was a great success, and will certainly stimulate interest in a society which has done so much in fostering music and elocution in the capital city.

ly. The relays of the Port Nicholson Band by 1YA and the Wanganui relay from 2YA were excellent. We would like a few relays of Wellington dance orchestras. The relays from 1YA and 3YA are much appreciated.—D. Campbell (Waipawa).



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Questions and Answers



In Brief.

E.Z.C. (Palmerston North).—Broadcast band, 98 turns; 100-250 metres, 28 turns; 40-100 metres, 14 turns. Your condenser has a capacity far too large for short wave. Try .00025. See "Radio Record," August 23, page 30, 31.

Changing Valves.

"R.B." (Reefton), has recently inserted two non-American valves in his American receiver, and he finds that the set goes dead.

A.: These are the wrong valves, for they are not designed for tuned anode coupling. Use 199's, and nothing else, in this receiver.

Valves Queries.

IS it possible that my valves, which I have been using for over two years, are not giving as perfect reproduction as formerly? asks "Valves" (Rodney).

A.: After 1000 hours the majority of valves begin to lose their emission. Some go considerably longer than this, but this is the exception rather than the rule.

2. What are the symptoms, apart from loss of volume, of valves losing their emission?

A.: The only symptoms are a general weakening of reception.

Motor Boating.

"R.V.S." (Waipukurau) asks the cause and remedy of motor boating, in a resistance coupled amplifier.

A.: Motor boating in resistance coupled amplifiers was fully dealt with in our issue dated August 16, 1929 (page 25).

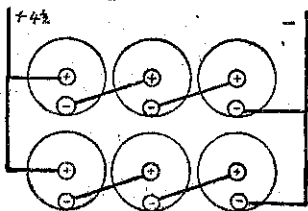
Eliminator Output.

"EXPERIMENTER" (Auckland) raises a point in connection with an answer to "Question-Mark" in our issue of August 9, concerning the output of a Philips eliminator. The B eliminator has an output of 30-35 milliamperes at 150 volts. The A eliminator was stated to run four or five valves delivering 2 amps. This latter part of the statement is quite obviously a typographical error. The output is not de-

finitely stated on these transformers, but would run out somewhere about 5 amps.

Dry Batteries for the "A."

"SCREENGRID" (Motueka) asks if dry batteries may be used for a three-valve set, the total A consumption of which is .18 amps.



A.: Use six dry cells in series parallel, as per the accompanying diagram.

Extension Speaker.

AT what distance is it possible to carry an additional speaker, asks "Interested" (Tolaga Bay).

A.: Used with an output filter, a speaker can be used up to 300ft.

2. Would this affect the volume?

A.: Not appreciably.

3. Would an extra charge on the batteries be required?—No.

Battery Potential on Crystal.

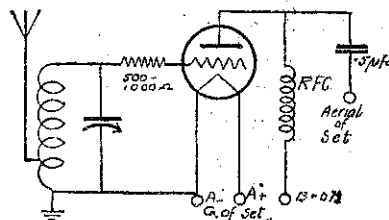
IS it practicable to add battery potential to a perikon type of crystal detector?—"Dector" (Wellington).

A.: No. Battery potentials are usually applied to assist the passage of signals through a carborundum detector. Other types of crystals are too sensitive.

R.F. Booster.

IHAVE built the R.F. booster, writes "A.G.F." (Dunedin), but cannot apply it to my kit set without the danger of blowing the valves.

A.: Construct the booster with parallel feed, a diagram of which is appended. This can be quite safely applied to any receiver not already employing R.F. stages. Where R.F. stages are employed, it will be advisable to increase the audio. This should materially add to the dis-



tance getting ability of the set, which, however, appears to be not normal.

Trouble with R.F. Booster.

"CONSTANTINOPLE" (Matamata) has made the R.F. booster with parallel feed, but cannot get good results.

A.: Insert a resistance between 500 and 1000 ohms in the grid lead of the booster. This will neutralise it and enable the filament to be tuned up higher.

Primary Cells as Chargers.

WOULD four or six Leclanche cells connected in parallel charge a 2-volt cell if it were connected for 18 hours every second day? We, in the country, are faced with the grave difficulty of getting our batteries to the charging station. I have seen quite a few cars figured by battery acid.

A.: The Leclanche cell will run for about 20 minutes only without polarising, so that it will be unsuitable for charging an accumulator. If a battery were tightly corked and stood upon a piece of board, or better still, in a small box which were padded with some absorbent material, the difficulty could, to a very large extent, be overcome.

Electrolytic Rectifier.

I LISTENED to good advice, states C. R. McK. (Tauranga) and purchased an eliminator with an electrolytic rectifier. The liquid in these cells has thickened to a jelly, and the voltage has dropped so low that I cannot receive the Australian stations. Could I re-charge with ammonium phosphate, or could I adapt the wiring so as to use the Rathenon valve? What should be the strength of this solution?

A.: In this case, your good advice was bad advice. A cheap eliminator with electrolytic rectifier is less economical than "B" batteries. Your case is quite typical. All you can do is to empty out the solution and fill the pots with fresh saturated solution of ammonium phosphate, and if the electrodes are worn replace them. Keep the aluminium and the lead as pure as possible and float a thin layer of light oil on the surface of the liquid. It would not be possible to adapt the eliminator to use a Rathenon valve, though it might be possible to use the transformer in a half-wave circuit

such as that described by Pentode a little while ago. This would not deliver a great amount of current.

Valve Combinations.

"M.D." (Canterbury), in his search for quality, has replaced the American valves in his American receiver with English power valves. He finds now he cannot neutralise the set, and voice is very much distorted.

A.: It is quite unnecessary to use big valves in any but the last stage. Their introduction into other stages causes the "B" battery to run down rapidly, or (if an eliminator is used) the voltage to drop. In addition, the windings of the transformers are saturated with current, and the distortion occurs. The grid swing to be accommodated by anything but the last stage valve is very small, and any general purpose valve will suffice. There are other considerations, such as matching and amplification that give advantage for special valves for special positions. For this reason the correspondent should have used three PM5's where he has used PM6's if he wishes to use this make of valve. However, in an American set we would strongly advise the use of a 201A valve or its equivalent. Certain makers are now turning out valves with exactly the same characteristics as these, and these only should be used to replace the American valve.

Strong Humming.

IHAVE completed the small eliminator described in the "Record" some time ago, but find a very strong hum present. How can I reduce this? asks "C.W.M." (Auckland).

A.: Insert another audio frequency choke, and by-pass condenser in the lead direct from the rectifying valve.

Strong Audio Howl.

ON testing my set, four valves with pentode in the last stage, a strong

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audio howl was present, which could not be overcome by changing the connections. All three transformers were shielded, and each is of a different make, writes "Home-Built" (Kaitia).

A.: The circuit diagram appears to be correct, though the use of a pentode in the last stage of a 4-valve set is not to be recommended. The pentode gives very great amplification of weak signals, but it can be easily overloaded, and this appears to be the case.

The transformers should be arranged with their axes at right angles to one another. These two factors appear to be the cause of the trouble.

The Browning Drake.

IN a four-valve Browning Drake what advantage has a .00025 over a .0005 mfd. condenser for tuning the regenerative? asks "W.J.S." (Dunedin).

A.: See "Cathode's" article in the "Radio Record," dated August 23, under the heading, "The Technician Explains."

2. I have had to put a .05 mfd. condenser.

2. Is it necessary to use an output choke with a push-pull amplifier?

A.: Decidedly not. The push-pull transformers are so built that no "B" current passes through the speaker winding. They are themselves output transformers or output chokes.

3. How many turns are required on secondary coils 2½ inches in diameter and tuned with a .0005 condenser?

A.: 100 turns of 22 gauge D.C.C. wire wound without spacing.

Push-Pull Amplifier.

WISHING to work a dynamic cone speaker and gramophone pick-up from my two-valve set, I would like the details concerning the push-pull amplifier, asks "Watmel" (New Plymouth).

1. Would a two-valve push-pull amplifier give the best results?

A.: A first audio followed by two valves in push-pull would be O.K.

2. Approximate cost of same?

A.: Good push-pull transformers can be obtained for 30s. each, while a good audio transformer can be obtained for 17s. Three valve sockets each at 3s. 6d., three valves, two at 1s. and one at 12s. 6d. would be necessary.

3. Where can I obtain diagram of circuit?

A.: A D.C. push-pull amplifier was described by "Pentode" in our issue of November 2, 1928, and an A.C. push-pull amplifier will be described in our issue of September 20.

4. What type of dynamic cone speaker would you recommend?

A.: One which will work directly from the A.C. mains or the 100-200 volt D.C. type, if a power amplifier using rectified A.C. current is used. The field winding can then be used as one of the chokes.

Choice of Speaker.

"A. J.D." (Gisborne) asks which is to be preferred: an exponential horn or a linen diaphragm.

A.: Much depends on taste, but the writer prefers the linen diaphragm; but it will have to be made carefully.

License Problem.

IS there a limit to the number of sets a person may use with one license providing they are all used at the same house?

A.: There is no limit, providing this is not a public house, and the set used for public or semi-public purposes.

2. If I sell my radio set, can the buyer have my license transferred to his name? —No.

Condenser Problems.

"MARCONI" (Timaru) asks:—

1. Would I have to alter the capacity of my two variable condensers if I wished to use a short-wave coil to tune down to 10 metres?

A.: The condenser tuning the grid coil will have to be altered so that the final capacity is no greater than .00025, and preferably .0001.

2. How is the capacity of a tuning condenser altered when the plates are double spaced, and is the tuning range increased or decreased?

A.: Capacity is calculated from the formula:

$$C = \frac{.0885 \times N \times S}{d \times 5,000,000}$$

where C signifies capacity in microfarads, N number of plates, S the area of one plate, and d the distance between them. It can be seen that the greater the distance between the plates the greater the capacity, but the variations will be very small.

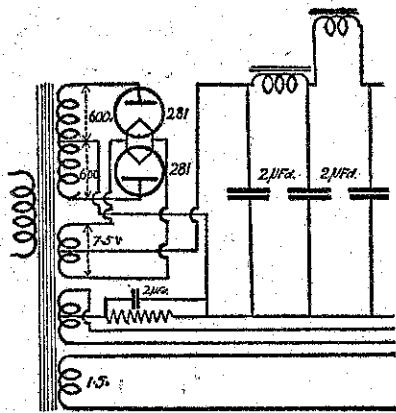
3. Are special coils necessary for a screen grid short-wave set?

A.: Yes, their specifications have been given on page 101 in one edition, and 110 in the other edition of the 1929-30 "Radio Listeners' Guide."

Filament Windings for 245 Valve.

HAVING built the eliminator described in "Listeners' Guide," "C.R." (Hokitika) wishes now to use the new 245 type valve requiring (filament) ½ amp. at 2.5 volts. These are being used in push-pull, which means that his wiring must supply half an amp. He asks if he can take the filament current for a 227 from this same winding.

A.: The 227 requires 1.75 amperes of current and with the half-amp supplied to the two 245's would make a total of 2.25 amps. To supply this a wire of not



less than 16 gauge should be used. This would present mechanical difficulties in the way of winding so that it would be advisable to make two windings, one of 22 gauge and the other of 18 gauge.

2. Will a B.H. Rathen rated at 300 volts maximum plate handle the 350 delivered by the eliminator?

A.: Not without over-heating. The best plan is to employ two 281 half-wave rectifier as per the accompanying diagram.

A.C. Supply.

"A.C." (Christchurch) asks if an American receiver used with a step-down transformer could be successfully used on the 230 A.C. mains.

A.: Yes, providing the number of cycles per second is the same, but the chances are that it is not.

2. Why is a metal cabinet better than a wooden one?

A.: Where high voltages have to be handled, as is the case with most modern receivers, especially those employing power transformers, very high magnetic fields are set up, and unless these are shielded from the tuning coils of the set, interference is likely to interrupt reception.

3. Is a magnetic speaker better than the ordinary cone speaker?

A.: They are identical, but some older cones used reed type unit.

Airzone Midget Coils.

COULD you publish a circuit for a three-valve set using the Airzone Midget coils?—H. (Wellington).

A.: Airzone Midget coils are ordinary Browning Drake kit. Use this circuit minus the second audio stage.

Motor-Boating

Condenser and Resistance Cure

I HAVE perused with interest your article in "Record" of 16th inst.

on "Motor-Boating" and the cure thereof. Before proceeding any further I would like to say that in my opinion one of the fascinating features of radio is the number of ways one can do a thing wrongly before striking the correct method. Still, it is rather

horrible to think of anyone with a set afflicted with motor-boating quietly wading through all the scheme and detail set out in your article. Motor-boating and threshold howl are only

interesting in the number of things one can do without curing them, and I am of opinion that the whole of the schemes set out in your article come within this category. Motor-boating and threshold howl can both be cured

by placing a 20,000 ohm wire round resistance in the detector power lead before it gets to the transformer and bypassing the set end of the resistance to earth with 2 mfd. condenser. I have

my information from an English magazine, "Wireless Constructor," and I have tried the scheme and found it entirely successful—curing motor-boating

and the threshold howl on both short wave and broadcast sets. The value given of resistance and condenser must not be departed from. I have also tried this and find it is correct. I might also add that this remedy will effect a cure even when the detector is running on a dry battery and the rest of the set on an eliminator.—Diogenes (Cromwell).

[Our article dealt with resistance capacity coupling, in which case the cure is effective.—Technical Ed.]

Technical Tips

RECENT experiments with anti-motor-boating devices suggest that a 4-mfd. fixed condenser is greatly preferable to the 2-mfd. usually employed.

NEVER attempt to drive a long thin screw into a three- or five-ply base-board without drilling a hole for it, or the head is sure to break off just when you are screwing the last few turns.

WHEN winding solenoid coils over a ribbed former it is a good idea to cut little grooves for the first and the last wires to fit into, and there will then be no tendency for the windings to shift along the former, as they will be anchored securely in place by the end turns.

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The "Home-Made" Three

(Constructed from the Junkbox)

(By "CATHODE")



It is a common complaint among newcomers to the art of radio that, having spent their all in the purchase of a receiver capable of giving loudspeaker reproduction, they lack the wherewithal to properly equip it. The writer has made it a practice to recommend the purchase of the necessary accessories and the construction of a loudspeaker receiver. It is astonishing what can be done in the direction of cutting costs even where every single thing has to be bought.

In describing the construction of an "economy set" it has seemed advisable to design it in such a manner that the makeshift components employed can gradually and without difficulty be replaced by commercial apparatus as the novice's purse recovers from the inroads made upon it by valves and batteries. This gradual replacement will be found desirable, as some of the "made for nothing" apparatus is not fitted to stand up to prolonged use, and will gradually deteriorate. The resistances, in particular will become noisy in time, but will be eminently satisfactory until the purse begins putting on weight again after its operation.

The old hand doubtless recognises some of the modes of component construction as being popular among the initiated many years ago.

The intention is that the receiver in its original form will comprise three valves: a detector without reaction, followed by two audio amplifying valves. Audio transformers can obviously neither be readily made nor procured for nothing, so that our receiver must perforce be resistance-capacity coupled. Nevertheless, baseboard room adequate for the accommodation of a transformer to couple the last stage will be left, so that the final receiver will pos-

sess an r.c.c. first audio and a transformer-coupled second audio. Provision will also be made for the subsequent incorporation of reaction and a neutralised high-frequency valve; if the constructor has no intention of eventually incorporating these latter features, he will be able to shorten the baseboard appropriately.

If the purse is very thin, even before its operation, and the local station is near and reasonably powerful, it will be permissible to dispense with the third valve, thus reducing the initial expenditure quite appreciably.

A study of the circuit diagram of Figure 1 discloses the following apparatus as being necessary:—

One baseboard 17½ inches by 9 inches, equipped with strips of three-ply (or other material 3-16in. or ¼in. thick) at the extreme ends of the underside (to permit of some of the wiring being located beneath the baseboard); 1 variable condenser (see text); 3 valve-holders; 1 tuning coil; 9 terminals; 2 fixed condensers of capacity somewhere between .006 mfd. and .015 mfd.; 1 fixed condenser about .0003 mfd.; 2 coupling resistances about 150,000 ohms each; 2 gridleaks about 2 megohms; 1 gridleak about 1 megohm; connecting wire (if uninsulated, sleeving will also be necessary); in addition, some small pieces of ebonite or other insulating material will be required for mounting the tuning condenser, the terminals, and the resistances and gridleaks; the construction of some of the components will involve the purchase of a number of tiny screws and nuts for assembling.

What can be Made.

TAKING these components in turn, let us differentiate between those we can economically construct and those we should buy. The baseboard will not usually involve any expenditure, although it is worth while to go to some pains to finish it nicely. A satisfactory variable condenser cannot readily be made, so that, unless the constructor happens to have one on hand, this had best be purchased; variations in the running coil can be made to accommodate any condenser which happens to be on hand, but where a purchase is contemplated a condenser having a maximum capacity of .0003 mfd. should be chosen if available.

Valve-holders can be made, but they are so very cheap that, in view of the labour involved in making them, a purchase is, in the writer's opinion,

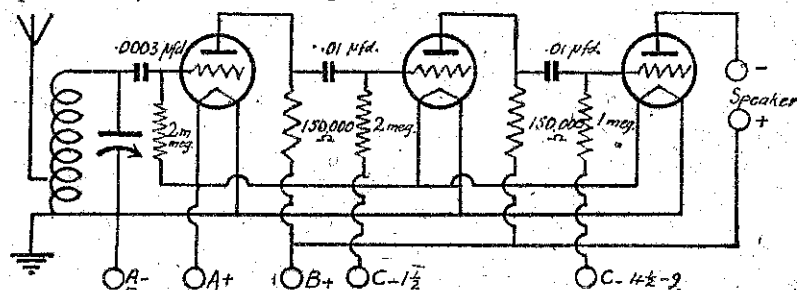


FIGURE 1.—THEORETICAL DIAGRAM.

justified. Do not purchase expensive spring-mounted holders, as they are unnecessary. If one is on the constructor's hands it can be most usefully employed in supporting the detector valve. It has been assumed that valve-holders for the American-base valves will be employed, and the practical wiring diagram depicts these; the experienced constructor will be able to visualise the necessary changes in wiring to accommodate English-base valve-holders. The novice will be well advised to use the American-base holders depicted and adhere religiously to the practical diagram.

The tuning coil will in all cases be constructed not only because expense can be avoided thereby, but also because this course will result in a component of superior efficiency, as compared with the commercial article. Moreover, the task of construction will be found to be one of almost ridiculous ease.

The terminals required will have to be bought. It may be pointed out, however, that the terminals shown for battery connections can be dispensed with if a seven-wire connecting cable is used, the flex leads being brought to appropriate points on the internal wiring; it is questionable whether the economy is worth while, as a terminal strip will figure in the receiver in its final form. Small screws equipped with two nuts might, however, quite well be used as a substitute for the terminals.

Constructing Condensers.

THE two coupling condensers are mounted on the neat little nine-penny mounting bases, with which many constructors will be familiar. The second coupling condenser will eventually be mounted in parallel with the first and on the same base, its discarded base being then used to mount the grid condenser, which in the meantime is supported on the wiring. Soldering can be avoided, if so desired, by looping the connecting wire round tiny bolts inserted through the holes at either end of the grid condenser. The same procedure is adopted in making connection to the coupling condensers, but these do not depend on the wiring for their support.

Fixed condensers can be fairly readily made, if the constructor does not object to the work involved. The method of construction is illustrated in fig. 2, from which it should be clear that two pieces of 3-16in. ebonite are utilised as clamping pieces to hold the assembly together, the clamping screws being heavily countersunk on the underside to avoid making contact with

the baseboard. Suitable sizes for the clamping pieces for the grid condenser will be: Top, 1½in. long by 1½in. wide; bottom, 2½in. long by 1½in. wide; for the coupling condensers the widths must be increased to 1½in.

The grid condenser is a specimen of the simplest possible form of condenser, comprising, as it does, two conductors, each connected to a terminal point, and separated by a dielectric or insulator. For the conductors we will use copper-foil or tinfoil, and for the insulator mica, .002in. thick; mica is usually sold in thicker sheets than the thickness specified, but may be very readily split down.

Lacking the means for precise measurement, it may be assumed that when the mica is split down so thin as to be almost glass-like in its transparency, this is near enough to correct. Any sheets showing signs of faults should have the faulty pieces removed at once to avoid any possibility of these being included in the condenser. As a temporary expedient where it is intended to eventually replace the home-made condensers by commercial products, each sheet of mica may be replaced by two sheets of uncreased waxed paper, such as cigarettes are wrapped in. Each sheet of copper-foil or tinfoil is 1½ inches by ½ inch, the mica sheet separating them being 1½ inches by 1 inch and so arranged as to protect beyond the area where the two pieces of

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foil lap over one another (1 inch by $\frac{1}{2}$ inch in extent) by $\frac{1}{2}$ inch on all sides. A reference to fig. 2 will make the matter clearer.

The coupling condensers, being of considerable capacity, would involve too bulky a component if only two conductors were used, so here we use a total of 21 foil "plates," the width of these being $\frac{1}{2}$ inch instead of $\frac{1}{4}$ inch, the width of the mica (or paper) sheets separating them being likewise increased to $1\frac{1}{2}$ inches so as to avoid any possibility of two adjacent "plates" touching. Starting from the bottom of the assembly, plates 1, 3, 5,

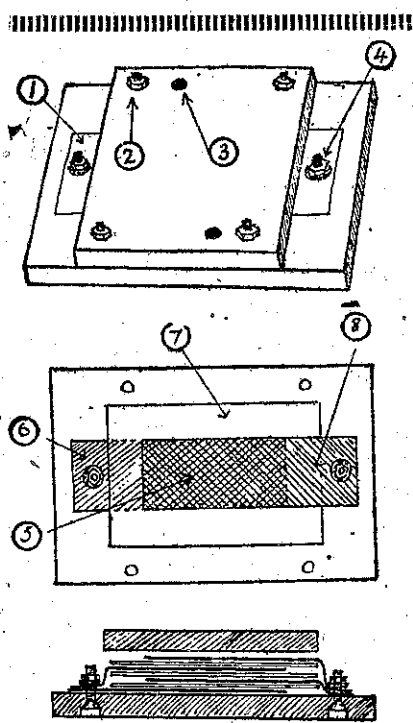


FIGURE 2.—FIXED CONDENSERS.

1. Projecting ends of tinfoil.
2. Clamping bolt.
3. Hole bored through both pieces of ebonite for screwing to baseboard.
4. Screw and nut for connections, washer under nut to protect tinfoil beneath.

Centre Diagram.—Plan of grid condenser before positioning of top clamping piece.

5. Area where tinfoil sheets overlap with mica sheets between.
6. Tinfoil (bottom sheet) under mica.
7. Mica separating tinfoil sheets.
8. Tinfoil (top sheet) above mica.

Lower diagram showing the method of assembling the coupling condensers with mica sheets, insulating the tinfoil "plates" one from the other. Only four of the total of twenty-one "plates" are shown.

7, 9, 11, 13, 15, 17, 19 and 21 will be connected to one end of the condenser and plates 2, 4, 6, 8, 10, 12, 14, 16, 18 and 20 to the other end; each plate must, of course, be carefully insulated from both its neighbours by sheets of mica arranged in just the same way as in the case of the grid condenser.

A portion of the assembly is shown in fig. 2, this also serving to show the manner of clamping all the projecting ends of foil at each end with a little bolt to which the connecting wires are ultimately also joined; a washer is placed immediately above the foil (this

is particularly necessary if tinfoil is used) to prevent its being torn when the nut is tightened. It will no doubt be obvious that, although holes for screwing the coupling condensers flat on the baseboard are shown in the diagram, the exigencies of space will necessitate their being mounted edgewise, in which position they may be supported by the connecting wires; the mounting holes will probably come in handy eventually when the condensers are used in some other piece of apparatus.

Resistances and Grid Leaks.

THE making of the resistances and grid leaks is even more simple, and since wire-wound resistances such as will eventually be used for coupling the first audio stage are expensive, their construction is advised in all cases. Both resistances and grid leaks are cut out of blotting-paper which has previously been drenched with Higgins' Waterproof American India Ink and dried; inasmuch as this ink is a trifle expensive, it will be well to stage, either in person or by a friendly proxy, a slight accident at the office whereby the bottle of India ink is spilt over a nice clean sheet of blotting-paper which is subsequently surreptitiously dried and secreted. As a last resort, 1s. 6d. may be expended on a small bottle of the ink, but be sure to obtain the kind specified.

Fig. 3 gives the dimensions of the pieces of prepared blotting-paper required for the various components also showing the method of mounting on a $\frac{1}{2}$ -inch strip of ebonite; a two-inch length of the strip will suffice to mount a gridleak, a resistance necessitating a three-inch length. As a very temporary job, the mounting strips may be dispensed with altogether, the strips of prepared paper being simply screwed down to the baseboard (which must be thoroughly dry and not of totara), with small brass woodscrews, under the heads of which the connecting wires are secured, a washer being disposed between the wire and the prepared paper to protect the latter. It will be found that the paper is rather apt to tear, some little care in handling it being necessary.

Tuning Coil.

THE only component remaining to be dealt with is the tuning coil. The constructor can please himself whether he cuts costs on this or makes a permanent job of it. A little expenditure in making a good job will not be wasted, as the original coil can then be shifted so as to tune the grid circuit of the high-frequency stage when this is subsequently added.

If it is intended to construct the coil, once and for all, a $3\frac{1}{2}$ -inch length of ebonite or formica tubing of 3-inch diameter should be procured; the thin purse should be temporarily stimulated by using a similar piece of cardboard tubing or by making a tube by winding several layers of varnished paper on a suitable former—the paper tube is subsequently baked in a warm oven, for which operation a time should be chosen when the rest of the household is away from home.

The winding is the same whether the coil is temporary or permanent, but depends on the capacity of the variable condenser with which it is to be tuned. Where the condenser is to be bought, it has been already suggested that it should be of .0003mfd. maximum capa-

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city, for which a coil having 68 closely wound turns of 24 S.W.G. double cotton covered wire will be suitable. It is desired, however, to make provision for those who have a condenser on hand of some other capacity, so the following little table has been provided to acquaint them with a suitable winding for their particular condenser:—

Condenser.	
.0005 mfd. ...	Winding 54 turns 22 D.C.C.
.00035 mfd. ...	Winding 64 turns 24 D.C.C.
.0003 mfd. ...	Winding 68 turns 24 D.C.C.
.00025 mfd. ...	Winding 70 turns 24 D.C.C.

All windings are close wound and will occupy some 2 inches on the former. The winding should be started $\frac{1}{2}$ inch from the bottom of the former—after first securing the bared end of the wire under the nut of a small screw—and continued until about the fifteenth turn, when a tapping loop is passed through a hole in the former and secured under the head of another screw, the portion of the loop in contact with the screw being, of course, first bared. The winding is then continued until the required number of turns is reached, when the bared end of the wire is passed under a third screw, this one being mounted at the top of the coil instead of the bottom.

Mounting the Components.

THE mounting of the components will present no difficulty. The practical wiring diagram shown in Fig. 5 is drawn accurately to scale and considerable care should be taken to mount each component precisely in the position shown, making use of the small scale printed below the diagram. The main terminal strip is 6 inches long, the terminals being centred 7-8 in. from each other, while for the other terminal strips and the condenser mounting any scraps of ebonite which happen to be handy may be used.

It is hoped that the many constructors who are unable to wire a receiver from a theoretical diagram will have no difficulty in doing so from the practical wiring diagram shown in Fig. 5; certainly no effort has been spared to ensure this. Just to make absolutely certain that no mistakes are made, the constructor should check his wiring from the following list of connections:—

- (1) Aerial terminal to tapping on coil.
- (2) Terminal on frame of variable condenser to bottom connection of coil, thence to negative filament terminal of detector valve-holder, thence under baseboard to earth terminal, thence to "A—" terminal, thence to "B—" terminal, thence to "C plus" terminal, thence under baseboard to negative filament terminal of first audio valve-holder, thence under baseboard to negative filament terminal of second audio valve-holder.
- (3) Low potential end of detector gridleak under baseboard to "A plus" terminal, thence under baseboard to positive filament terminal of detector valve-holder, then under baseboard to the positive filament terminal of the first audio valve-holder, thence under baseboard to positive filament terminal of second audio valve-holder.
- (4) "B plus" terminal under baseboard to one end of first plate resistance, thence under baseboard to one end of second plate resistance, thence to "Loudspeaker" plus terminal.
- (5) Other end of first plate resistance to one end of first coupling con-

denser, thence to plate terminal of detector valve-holder.

(6) Other end of second plate resistance to one end of second coupling condenser, thence to plate terminal of first audio valve-holder.

(7) Grid terminal of first audio valve-holder to other end of first coupling condenser, thence to high-potential end of first audio gridleak.

(8) Other end of second coupling condenser to high-potential end of second audio gridleak, thence to grid terminal of second audio valve-holder.

(9) Low potential end of first audio gridleak to "C" minus $1\frac{1}{2}$ terminal.

(10) Low potential end of second audio gridleak to "C" minus $4\frac{1}{2}$ to 9 terminal.

(11) Plate of second audio valve to "Loudspeaker" minus terminal.

(12) Insulated terminal of variable condenser to top connection of coil,

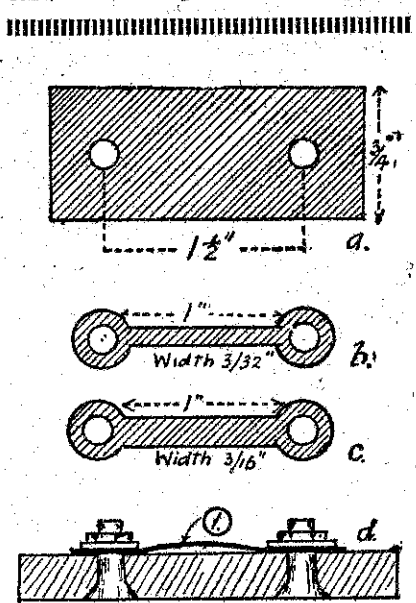


FIGURE 3.—A, B, and C.

Dimensions of pieces of prepared blotting-paper for resistances and gridleaks.

D.—Method of mounting resistance or gridleak on strip of ebonite.

(1) Strip of prepared paper.

thence to one end of grid condenser. (13) Other end of grid condenser to grid terminal on detector valve-holder, thence to high potential end of detector gridleak.

Two Valves Only.

WHERE only a two-valve version is contemplated, the continuation of the wiring to the last valve-holder and associated apparatus may be omitted, the plate terminal of the first audio valve-holder being connected direct to the "Loudspeaker" minus terminal.

Wiring may be carried out either with insulated wire, such as Glazite, which is bared where it is desired to make a connection, or with tinned copper wire of about 18 or 20 S.W.G., over which insulating sleeving is slipped wherever there is a danger of two wires touching or of a wire touching any piece of apparatus. The method of doing part of the wiring under the baseboard involves drilling a fair number of holes to pass the wires through, but this is not difficult.

Valves to Use.

UNLESS the constructor is already in possession of an accumulator or valves of a different voltage it is recommended that a 4-volt accumulator and valves of the 4-volt class be purchased. Whatever the filament voltage of the valves the first should have an impedance somewhere between 7000 and about 20,000 (e.g., Mullard P.M.4 D. or P.M. 3 Marconi or Osram D.E.L. 410, Philips A415 or A409, Cossor 410 B.F.). The first audio valve should have similar characteristics, any of the foregoing valves being suitable; while the third valve should have a rather lower impedance of somewhere about 5000 to 8000 ohms (e.g., Mullard P.M. 4, Marconi or Osram D.E.P. 410, Philips B409, Cossor 410P. Care must be taken to obtain the type of base for the valveholders used.

been made, and all batteries should be at once disconnected and the mistake traced before going any further.

On inserting the valves the local station should be tuned in without the slightest difficulty, and the writer ventures to prophesy that the constructor will be agreeably surprised by both volume and tone. If results are not what they should be, and home-made condensers are used, feel the first and second audio valves in turn. If the first is appreciably warm or the second uncomfortably warm, it is probable that a mistake has been made in assembling the coupling condenser preceding the offending valve.

The "B" battery should be hastily disconnected and the condenser taken out and tested by connecting it in series with a grid bias battery and a flashlamp bulb; if the bulb lights, there is obviously no insulation be-

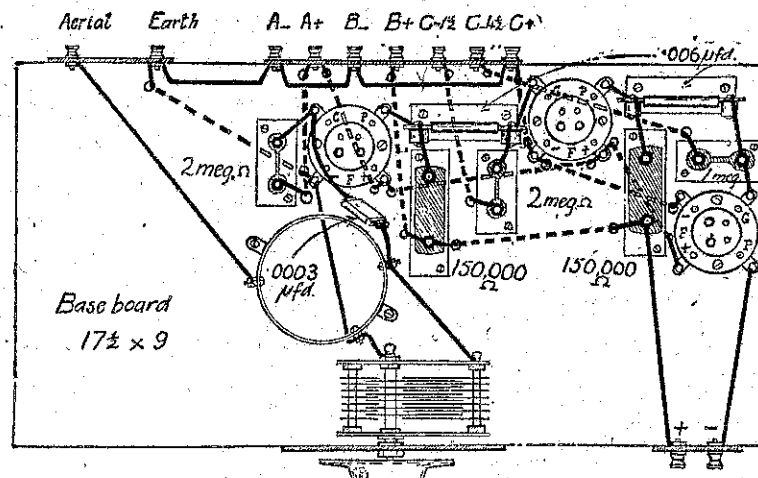


FIGURE 4.

Layout showing positions of components. Continuous heavy line denotes wire above baseboard. Broken heavy line shows wire beneath baseboard.

Batteries.

THE "B" battery should be at least 90 volts and preferably more, up to a maximum of, say, 135 volts. The "C" battery must be of the type having a tapping at $1\frac{1}{2}$ volts negative. The maximum negative potential required from the "C" battery is determined by the type of valve used in the last audio stage and by the voltage applied to its plate (i.e., the voltage of the "B" battery).

Information regarding the negative bias necessary at different plate voltages will be found on the maker's instructions accompanying the valve. Note, however, that notwithstanding any instructions given by the valve manufacturers, the negative bias applied to the first audio valve is not to exceed $1\frac{1}{2}$ volts.

IT will be noted that no on-off switch is fitted to the receiver. This omission will be remedied so soon as we describe the fitting of a proper panel, but in the meantime it will be necessary to disconnect the "A" negative lead from the accumulator when it is desired to "switch off" the set. If a battery clip is used this will entail no hardship.

The batteries should be connected up for the first time before the valves are inserted. If a vicious blue spark is encountered on connecting any of the batteries, a mistake in wiring has

tween the two sets of plates in the condenser, and a reassembly is indicated.

The only other likely source of trouble, provided the valves are sound, is a mistake in wiring, and every precaution has been taken to ensure that the constructor will not be guilty of this. The receiver in its present form is unsuitable for distant reception, so nothing should be expected of it in this direction; the disability will be remedied in due course.

The speaker should be connected so that the flex lead having a red tracer is connected to the terminal marked "+" and the other lead to the "—" terminal.

In closing, it may be noted that if care is taken to buy valve-holders and other components having terminals, no soldering at all is necessary, so that the constructor who dreads the soldering iron need have no fears on this score.

The next article will deal with various small improvements, these including the fitting of a proper panel and the wiring into circuit of a filament switch.

MANY a good indoor antenna is spoilt by the fact that the lead-in wire from the antenna is placed too close to metal pipes or similar objects, which subtract a certain amount of the energy which should reach the set.

Short-Wave Notes

(Continued from page 32.)

any reply. At 9.32 p.m. the news was given that the Zepp. passed over Beaufort, 100 miles east of Pittsburgh at eight minutes past 4 a.m. Again later the flyers were reported as 100 miles west of New York at 5.42 a.m. Until this time the station was "standing by" in between these items. Music from the roof of the De Witzler Hotel, New York City, was then broadcast, while waiting of the arrival of the giant airship. At 10.30 p.m. the first was heard of the flyer being sighted, the various movements were then described. 10.35 p.m. saw the airship "directly over the harbour." "A weird and wonderful sight in the morning sunshine." Later it was making for and encircling the Statue of Liberty, disappearing in the morning haze, making for Lakehurst, New Jersey. It was lost sight of in New York at 10.40 p.m. More music was heard from New York till word was received from Lakehurst that the Zepp. was sighted there at 11.25 p.m.

Howlers were so bad at this time on KDKA that I tried 2XAD, and found them readable, but not so loud as the Pittsburgh station. The announcer said, "She looks gorgeous up there." After describing how the ship was getting closer to the ground, at 11.38 p.m., the first lines were thrown out from the bow of the ship, and at 11.43 p.m. the announcer said, "The Graf Zeppelin touches the ground, after encircling the globe in 21 days and 5 hours."

KZRM were R8 with a musical programme.

CJA, Drummondville, Canada, were calling 2ME, Sydney, at 10.15 p.m. Later, another voice said, "Hullo, Sydney, Montreal calling." Strength R8, quite clear. RFM, R9, with an orchestra, 5SW at 11.30 p.m., were R2-3, and very unsteady.

Friday, August 30.

PCJ was very good at R8 till 7.30 a.m. 2ME and GBX were chatting as usual. The German was on at the same time as PCJ, and was quite a lot stronger than the Dutch station; it was only just possible to separate the two, about two degrees apart. 5SW was also good strength, but not a patch on either the Dutch or German stations for clarity. During the evening GBX, 2ME, and KZRM were received at good strength.

P.S.—The latest Yankee classic (?) has just been heard from New York. It is called "Shoo, Shoo, Buggy, Buggy Boo."

KZRM, Manila.

IN reply to your correspondent, "Puzzled," Wellington, re station whose call sounds like KCRM. This is undoubtedly KZRM, Manila, Philippines, as the announcer pronounces Z "seed." This is on 49 metres. I always read the "Record" from the back page forwards. I hope Mr. Sellens has recovered from his accident. I look forward to his notes, as I get something definite from them to work on when searching for stations which I have not heard before.—A. R. Cranston (Auckland).

Logging GBH.

I WONDER if any short-waver managed to log GBH, England, at 7.15 on Friday night, last. I received him on a wavelength of 27 metres, as near as I could judge. He was reading for VK, 2ME, Sydney. He came in at R. 7 to 8; speech 100 per cent, readable. Could anyone tell me—and others—where to get logging cards and how to send in reports to be verified? Would you be able to put this information in your Short Wave Notes? I'm sure many readers would like to know this. Also, may I say how I look forward to those notes which help we beginners very much? —"A New Chum" (Timaru).

GBH and 2ME.

A SHORT time ago I noticed in Mr. Sellens's notes that 2ME was testing with GBH. The call-book gives GBH as a Grimsby beam station and until this afternoon I also thought this correct, but I heard Sydney telling Suva that the station he is working is GBX, a new station at Rugby, operating on 27.86 metres, from 4 to 7 a.m. and p.m., Sydney time; 0600 and 1800 hrs. G.M.T. Will you please publish the wavelength of CJA, Drummondville?—"Zealandia" (Huntly).

Diagram Correction

Inductance Coil Design

IN "Radio Record" dated August 23 there appeared on page 30 a diagram, but the explanatory matter relating to curves "A," "B," "C" was transposed. It appears below in corrected form. Readers are advised to cut out the corrected lines and paste them over those appearing previously. Top.—A 200 mh. coil tuned with .0005 mfd. condenser. Centre.—A 280 mh. coil tuned with .00035 mfd. condenser. Lower.—A 340 mh. coil tuned with .00025 mfd. condenser.

"A" denoting a 3-inch former; "B", 2.5; "C", 2.

Landing of Graf Zeppelin

MR. ROBT. WHITE, of Takapuna, sends an account of the landing of the Graf Zeppelin at Los Angeles on August 26, which he received on short wave from station KDKA relaying KFI (Los Angeles).

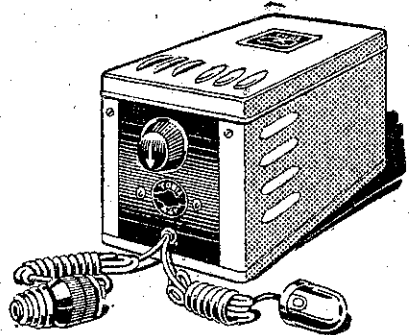
10.55 p.m. (N.Z.): Just after 3 a.m. Pacific S.T. Jennings Pierce announcer gives account of flight of Zeppelin until it circled Los Angeles earlier in the evening. Music from studios KDKA and KFI in interval of waiting. 11.25: Announcer gave an account of Pacific flight of the Southern Cross, 11.30 p.m. (N.Z.) he related the man-and mentioned Warner and Lyon reception in California on their return. oeuvres of the 315 men of the Air Force, who will take up positions to assist in mooring the Graf. 11.40 to 12 midnight, musical items. 12.8 a.m. Tuesday: Announcer said it was just getting light now and described the surrounding ground and remarked on shadows due to atmosphere, and that the (local) baby Zepp "Volunteer" was circling the flying ground (engine heard quite distinctly). The reception committee now are waiting at the reception mast. Zeppelin is now seen coming. Listeners are told about a black cat that came from Germany and walked ashore in Tokio (Japan) from the Graf while there. Jennings Pierce announcer said "Dawn has arrived," and described the landing ground, a square mile in extent, the crowd, cars, etc., waiting, and gave a resume of account by Lieutenant B. W. Thomson, who earlier in the day

first sighted Zepp over the ocean from his aeroplane. Police were keeping the crowd back from the landing ground. More music from KFI studio. 12.22 a.m.: Graf Zeppelin then over airport and motors heard running. Announcer said that there was a slight haze rising off fields, and that he could count five gondolas towards stern of airship. Whistles and sirens were going strongly. The Zeppelin then circled very slowly over Los Angeles. Everyone was watching tensely and dozens of aircraft were getting ready to go aloft for their day's work. The baby Zepp "Volunteer" still circled and led her big brother. The landing crew then took stations. There was not a single breath of air. 12.33 a.m. (N.Z. time): The nose of the big Zeppelin now pointed towards the mooring mast a mile away. A traffic officer kept the crowd clear.

"We can read the name painted in red letters on her sides," said the announcer. "Slowly this leviathan of the air is nosing down. She is now 200 feet up in the air. Time 5.11 a.m. Pacific S.T. It could not be a more perfect day for a landing, and she is quarter of a mile from the mast." 12.46 a.m. (N.Z.); "Men are now all around the ship, and she is throwing out ropes. Great excitement and noise among the assembled people." The reception now became difficult, and I gave it up.

If you are using a B eliminator and are troubled with a slight hum, it is a good plan to insert the primary or secondary of an old audio transformer in series with the B+ to the detector lead, as this very frequently effects a complete cure.

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French Colonial Wireless.

THOUGH her empire is nothing like as large as ours, France is wide awake to the desirability of keeping in touch with it by means of shortwave broadcasting. On June 11, a great meeting was held in Paris, presided over by the Minister of the Colonies and the Under-Secretary of State for Posts and Telegraphs, to further the cause of empire broadcasting. The meeting was organised by various important bodies, including the French Colonial Institute, the Radio-Agricole, the African Committee, and the French Maritime and Colonial League. The proceedings were a great success, and there is no doubt that they will bear fruit.

Ste. Assise.

THE French Post and Telegraphs, through its high-power station at Ste. Assise, experiments daily on a wavelength of 24 metres between 10.30 p.m. and 12.30 a.m. New Zealand time, with a relay of the Ecole Supérieure (Paris) luncheon gramophone transmission.

IT is reported that the Weltrundfunk-sender at Königswusterhausen is rated at 20 KW, or 7 kilowatts in the aerial. After its experiments on 75.3 metres, Königswusterhausen is shortly to begin experimental transmissions on wavelengths between 15 and 50 metres. No call sign is at present given. I believe that the German heard every morning during the past two or three weeks on about 31.5 metres from 6.30 a.m. is this station with the yard-long name. After the call "Achtung," is given a long word concluding with "hausen" is heard. I have listened carefully for this word and feel sure that this is the name. This station continues to come in at excellent strength every morning.

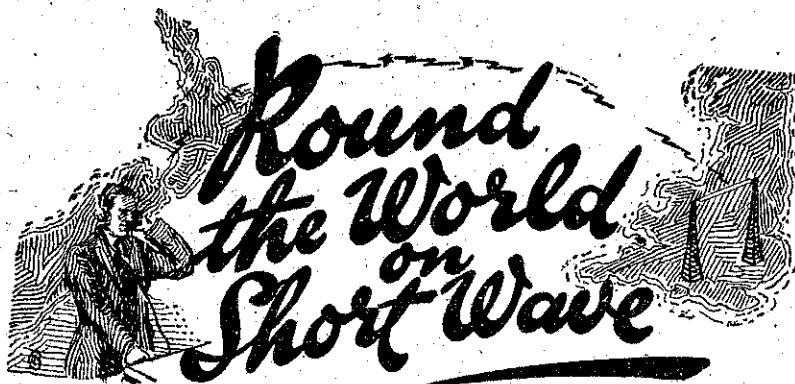
VK2ME and GBX are still testing on duplex telephony almost every morning and evening. During one test, Sydney was heard to state that "they could carry on two-way telephony with England for 12 hours out of the 24 on the wavelength then being used (28.5 metres)."

Tests are shortly to be carried out on other frequencies, with a view to be able to be in constant touch with England.

Log for Week.

SATURDAY, August 24.—The 31.5 metre German was again perfect at R9, except for slight static. 5SW when tuned in at 6.30 a.m. was broadcasting an organ recital. Strength, R8, quite, good except for a slight surging.

PCJ was silent during this morning's usual 5.30 till 7.30 a.m. transmission. They were not heard during the afternoon till 3 p.m., when they made the statement that they "were testing on 31.4 metres." Strength was R9, and continued at that till 4.30 p.m. After this volume reduced to R8 by 5.35 p.m., when they



THIS page is conducted in the interests of shortwave enthusiasts. A weekly log comprising notes of reception and interesting topical events is contributed by Mr. F. W. Sellens, Northland, Wellington, but all listeners are invited to send in paragraphs of general interest.

signed off. Morse interference was very bad nearly all through; this could be cut out with the use of an inside aerial at the expense of weaker signals.

3ZO Christchurch put on a short relay from Lancaster Park, the balance of the programme consisted of gramophone records, well received.

W2XAD was tuned in at 1.30 p.m., when the item "Guardians of the Air" was announced. This was receivable at R7. The last hour from Reilly's Lake House, dance music, was very strong and clear.

VK2ME at R9, and GBX at R8, on duplex in the early evening, were spoilt by background noises. KZRM, with hand items, news, etc., was R9. Static was very bad on this wavelength. RFM was also R9, with orchestral music and a plentiful supply of talk.

On about 20.5 metres, at 11 p.m., a woman was heard talking, apparently duplex. A man spoke later from the same station. Reception R8, and would be 100 per cent. readable if in English. Apparently in the same language, on about 16 metres, but much weaker, about R3-4, other voices could be heard.

2BE Hastings and 2BY Wanganui were heard at good strength just before 11 p.m.

Sunday, August 25.

THE usual Americans were tried out at 10.30 a.m. KDKA was the only one clear and strong enough to be readable. They were reading out the Saturday afternoon's baseball scores. Later in the day, when volume increased, they were spoilt by noisy background.

W6XN (KGO), at 1.30 p.m. was R5, and rather gushy, with the same programme as 2XAF and 2XAD were transmitting till 2.30 p.m. After this a relay was carried out from a hall which the

announcer said was about three-quarters full, and that he estimated the audience between 16,000 and 17,000 people—it must be a fair-sized building.

Volume at the best was R8 at 4 p.m. They carried on till 7.30 p.m., but were very weak by this time.

On 20.5 metres at 1.30 p.m. the foreign lady was again heard at R7.

W2XAD and W2XAF from 12.30 till 1.30 p.m. transmitted the General Electric House; 1.30 till 2.30 p.m. the Lucky Strike Orchestra and from then till signing off a special Byrd Expedition programme. Both stations were about R8-9 at their best. KZRM at 9.45 p.m. were broadcasting the National Military Band. Reception was excellent at R9. RFM was R8. Static very bad.

Monday, August 26.

AT 6.30 a.m., "Achtung, — hausen, Berlin," was heard, followed by a lighter class of music than usual. Volume R9 for a time, but getting weaker later.

GBX, R7, and 2ME, R9, were on their duplex tests early in the evening; both were 100 per cent. readable, quite easy. KZRM, Radio, Manila, P.I., with music, etc., was good at R8. They signed off at 9.15 p.m., giving the time as 5.31 p.m.—"Good afternoon." W6XN was

tuned in at 9 p.m., when they were transmitting a Graf Zeppelin programme. This was described as a "World-wide Broadcast," originating from the KFI studios. Records were heard with some talk in between which was difficult to follow. Volume was weak at this time, but increased to R7 by 10.30 p.m. The arrival of the Zeppelin at Los Angeles appeared to be a long way off, so did not wait for it.

Tuesday, August 27.

AT 6 a.m. 5SW was R8, a strong ripple made talk difficult to understand.

2ME at R9 and GBX at R5 were quite good and clearly readable.

At 6.30 a.m. bells were heard from the German 31.5 station, following by "Achtung, Königswusterhausen," etc. After a short talk by a man and then a woman, a relay of some very fine music was heard.

W6XN was tuned in at 6.30 p.m., when they were R8-9, with music from the Empire Room of the St. Francis Hotel, San Francisco.

From VK2ME at R9 Mr. Fisk was heard talking from Wireless House to a gentleman at Wandsworth Common. Later, mother was rung up and baby was persuaded to say "Hullo" to grandma. Kesry also said "Hullo, grandma," and inquired after a dog.

KZRM was very clear at R8. RFM with plenty of talk was R9.

Wednesday, August 28.

I TUNED in 5SW at 5.45 a.m. in time to hear the conclusion of a talk on farming. This was followed by records.

Strength R8-9, quite good except for a slight ripple. A later talk was not so clear. GBX was also R8-9, but much more clear than 5SW. 2ME was excellent. The carrier of the 31.5 German was on before 6 a.m. A quick ticking metronome commenced at 6.22 a.m. At 6.30 a clock chimed and struck 8 o'clock. The announcement was commenced while the clock was still striking. Organ and orchestral music were received at R9. Static medium.

W6XN was not heard this evening, perhaps on account of being on the air the previous evening for a change.

With the duplex tests between Sydney and England, GBX was as clear through 2ME as that station itself. There was somebody howling very badly on 2ME. A receiver which requires so much regeneration for a station which was coming in full speaker strength, needs attention.

On about 24 metres a voice was heard, but not readable, probably CJA, Canada.

KZRM was R7 at 7.30 p.m. They went off soon after, but were heard again at 9.30 p.m. at R9 with a musical programme, transmitted from the top floor of the Manila Hotel, Philippine Islands. At 9.30 p.m. on about 16.3 metres, probably PCK, Kootwijk, duplex telephony was heard, at R6. Another station on about 15.8 metres, also R6, with the same language (Dutch), was heard. On about 15 metres a voice was just audible. These were all on at the same time—from 9.30 p.m.

Thursday, August 29.

THE German put over a long talk this morning before commencing his music. This was R9 at first, decreasing to R8 by 8 a.m.

5SW at R8 was spoilt by a very bad ripple; this continued till 8 a.m. at least.

W6XN was R2-3, with a lady singing at 6.30 a.m. Signals died out after this.

GBX, R8, and 2ME, R9, with duplex test. The English station was "gushy" all the time. At 7 p.m. 2ME was fading badly when testing with GBX, who were R7.

The howler was again squealing badly on a R9 signal. 2XAD was on the air at 8 p.m., but too weak to be readable at this time.

KDKA was tuned in at 8.30 p.m., when they were quite good at R9. They stated that they were on the air for the arrival of the Graf Zeppelin, and were transmitting on short waves for the benefit of German listeners. The Zepp., it was stated, passed over Cleveland at 4 a.m. At 8.55 p.m. they asked the Graf Zeppelin to give their position and probable time of arrival, but this did not receive (Concluded on page 31.)

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The rate for small advertisements under this heading is 2/- cash for 20 words, and twopence for every other word thereafter.

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